



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

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NO. ERPC/PROTECTION/2021/289

DATE: 04/06/2021

To,

As per list enclosed,

Sub: Notice for 103rd Protection Coordination sub-Committee (PCC) meeting of ERPC

Sir,

Notice is hereby given that **103rdPCC meeting** of ERPC will be held on **17.06.2021(Thursday)** from **10:30hrs** through online Microsoft Teams meeting platform. The meeting link will be forwarded through e-mail or message. You are requested to enter the participant name and designation and organisation name while joining the meeting. The following coordinator may be contacted for any assistance:

Kumar Satyam, Asst. Director-II, ERPC, Mob: 7355225072, E-mail: satyam24365@gmail.com

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 102nd Protection sub-Committee Meeting of ERPC.
- 2) Analysis of following grid disturbances of May 2021:
 - Total Power Failure at 220 kV Dumka(JUSNL) Substation on 15/05/2021 at 12:01 Hrs
 - Disturbance at 220 kVBodhgaya(BSPTCL) Substation on 17/05/2021 at 23:06 Hrs
 - Disturbance at 220 kV Sonenagar(BSPTCL) Substation on 20/05/2021 at 03:41 Hrs
 - Total Power Failure at 220 kV Joda(OPTCL) Substation on 23/05/2021 at 10:17 Hrs
 - Total Power Failure at 220/132 kV Jasidih(JUSNL) Substation on 27/05/2021 at 10:13 Hrs
 - Total Power Failure at 220 kV Khagaria(BSPTCL) Substation on 27/05/2021 at 23:22 Hrs
 - Total Power Failure at 220 kV Rengali(OPTCL) & 220 kV Rengali(OHPC) Substation on 28/05/2021 at 07:45 Hrs
- 3) Tripping of 400 kV Main Bus-2 at Teesta V on 17/05/2021 at 18:08 Hrs and Tripping of 400 k V Main Bus -1 at New Ranchi on 27-05-2021 at 00:18 Hrs
- 4) Repeated Tripping of followingtransmission lines due to same nature of fault and location in May'21
 - Tripping of 400 kV Gokarana- Sagardighi-2.
 - Tripping of 400 kV Behrampur -Sagardighi-1.
 - Tripping of 765 kV New Ranchi – MedinipurD/C.
- 5) Follow up of decision of previous Protection sub-Committee Meetings.
- 6) Single line tripping incidences of transmission lines for month of May 2021 is enclosed at **Annexure -1.**

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 trippings well in advance for meaningful analysis during the meeting. 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.

Your participation in the meeting is highly solicited.

Yours faithfully,

(D. K. Bauri)
Superintending Engineer(O& PS)

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, KusaiColony,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 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, L.A Block, Salt Lake-III, Kolkata-700098 (Fax-033-23350516) |

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|---|---|
| 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 (O&M), POWERGRID, Odisha Projects, Sahid Nagar, Bhubaneswar – 751 007 |
| General Manager (OS), ERHQ-I, NTPC Ltd., LoknayaKJaiprakashBhawan, (2 nd 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 (OS), 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 (OS), ER-II Power Grid Corporation of India Ltd., J-I-15, Block-EP, Sector-V,Salt Lake,Kolkata-91 | ShriA.K.Nayak/ShriSumit S Ghosh 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 | ShriBrajesh Kumar Pande, Plant Head, JITPL. (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 SewaBhawan, R. K. Puram, 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 |
| President , TPTL, BhikajiCama Place, New Delhi , 110066 | |

List of important transmission lines in ER which tripped in MAY-2021

| S.NO | LINE NAME | TRIP DATE | TRIP TIME | Relay Indication LOCAL END | Relay Indication REMOTE END | Reason | Fault Clearance time in msec | Remarks | DR CONFIGURATION DESC | DR/EL RECEIVED FROM LOCAL END | DR/EL RECEIVED FROM REMOTE | LOCAL END UTILITY | REMOTE END UTILITY |
|------|----------------------------------|------------|-----------|--|---|----------|------------------------------|--|-------------------------------|-------------------------------|----------------------------|-------------------|--------------------|
| 1 | 400KV-BINAGURI-TALA-1 | 05-01-2021 | 05:32 | BINAGURI: B-N, 101.39 KM, 3.772 KA; TALA: B-N, 2.88 KA, 56 KM | B-N, 2.88 KA, 56 KM | B-Earth | <100 | Binaguri end A/R successful , but after 1.5 sec DT received from Tala end due to PD operation. | | YES | NO | PG-ER-2 | BHUTAN |
| 2 | 220KV-NEW PURNEA-MADHEPURA-1 | 05-01-2021 | 13:14 | Madhepura: B-N z1, dist-40.2km IL3-1.31kA | N_Purnea: B-N, 60.62KM, 1.2kA | B-Earth | 300 | High resistive fault observed ,from one end(purnea) 3 phase line tripping occurred and other end only B phase opened but A/R attempt not occurred ,and tripped through PD. | DR time frame not sufficient. | YES | NO | PG-ER-1 | BSPTCL |
| 3 | 220KV-NEW PURNEA-MADHEPURA-1 | 05-01-2021 | 12:16 | New_Purnea: B-N, FD: 61.59km, FC: 1.265kA | Madhepura: B-N ,Z1.DIST-40.3KM,IL3-1.34KA | B-Earth | 300 | High resistive fault observed ,from one end(purnea) 3 phase line tripping occurred and other end only B phase opened but A/R attempt not occurred ,and tripped through PD. | | | NO | PG-ER-1 | BSPTCL |
| 4 | 400KV-MAITHON-MEJIA-3 | 05-02-2021 | 16:03 | Line only tripped from Mejia end only | | NO FAULT | N/A | From Mejia end Z-3 started Fault of DSTPS-RTPS sensed and tripped within 100ms, Reason may be explained? Even after unsuccessful MCB ZV1, PCB reclosed from DSTPS end leading to repeted fault feeding from generating station.MaY EB CORRECTED AS SOON AS POSSIBLE. | | NO | YES | PG-ER-2 | DVC |
| 5 | 400KV-DSTPS(ANDAL)-RAGHUNATHPUR- | 05-02-2021 | 16:03 | Carrier send, Tripped Phase- A, Fault Current Ia = 9.395 KA, Fault Distance= 35.30 KM. Relay: 86A1,86A1X, 86, 79 | | R-Earth | <100 | | | YES | YES | DVC | |
| 6 | 400KV-FSTPP-KHSTPP-3 | 05-03-2021 | 18:30 | | Z-1, B-ph, F.C.-21kA, F.D.-10km (KHSTPP) | B-Earth | <100 | From kahalgaon end 3 phase tripping occurred no A/R. | | YES | YES | FSTPP | KHSTPP |
| 7 | 765KV-NEW RANCHI-MEDINIPUR-2 | 05-03-2021 | 18:59 | N. Ranchi: Y-N, 3.8kA, 79.1Km | Medinipur: Y-N, 4.8kA, 25.9Km | Y-Earth | <100 | 3 PHASE tripping from ranchi end .Reason may be shared?,3 ph tripping from Mednipur end also | | YES | NO | PG-ER-1 | |
| 8 | 400KV-MAITHON-KHSTPP-2 | 05-03-2021 | 18:35 | Tripped from KHSTPP end only | | NO FAULT | N/A | Reason may be shared. | | NO | NO | | KHSTPP |
| 9 | 400KV-MAITHON-KHSTPP-1 | 05-03-2021 | 18:30 | Tripped from KHSTPP end only during tripping of 400kV FSTPP-KHSTPP #3. | | NO FAULT | N/A | Reason may be shared. | | NO | YES | | KHSTPP |

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|----|-----------------------------------|------------|-------|---|---|----------|------|---|-----|-----|---------|----------|
| 10 | 400KV-KHSTPP-BANKA (PG)-2 | 05-03-2021 | 18:53 | | Banka: Y_N, 48.8 KM, 5.1 kA | Y-Earth | <100 | 3 Phphase tripping from Banka and KHSTPP end.Whether A/R was disabled or fault was in reclaim time? | YES | YES | KHSTPP | PG-ER-1 |
| 11 | 400KV-BIHARSARIFF(PG)-BANKA(PG)-2 | 05-03-2021 | 17:45 | Biharsharif: Y_N, 108.4 KM, 3.1 kA | Banka: Y_N, 67.1 KM, 4.4 kA | Y-Earth | <100 | 3 Phphase tripping from Banka and BSF end.A/R was under shutdown. | YES | YES | PG-ER-1 | |
| 12 | 400KV-PUSAULI(PG)-DALTONGANJ-2 | 05-03-2021 | 13:37 | Sasaram: Y_N, 74.4 KM, 4.5 kA | Daltonganj: Y_N, 91 KM, 2.05 kA | Y-Earth | 200 | MCB A/R failed and 3 phase MCB opened and immediately Y phase tcb also reclosed and failed but R&Y phase remain closed hence after 2.5 sec PD operated .Also oscillating voltage in Faulty phase during dead time observed. | YES | YES | PG-ER-1 | |
| 13 | 400KV-FSTPP-KHSTPP-1 | 05-03-2021 | 18:00 | FSTPP: Y-N, 5.7 KA, 70 km | | Y-Earth | <100 | From kahalgaon end 3 phase tripping occurred no A/R. | NO | YES | NTPC | |
| 14 | 400KV-LAKHISARAI-KHSTPP-2 | 05-05-2021 | 16:43 | Lakhisarai: Y_N, 46.04 KM, 10.48 kA | KHSTPP: Y_N, 114.2 KM, 3.82 kA | Y-Earth | <100 | A/r successful from KHSTPP only,3 phase trip from Lakhisarai end | YES | YES | PG-ER-1 | KHSTPP |
| 15 | 220KV-CHANDIL-RANCHI-1 | 05-05-2021 | 13:46 | Tripped from Ranchi end(Ranchi: R_N, 68.2 KM, 2.4 kA) | Chandil: R-N, 19.3Km, 4.3kA | R-Earth | 500 | Reason for delayed clearance ? | NO | NO | JUSNL | PG-ER-1 |
| 16 | 400KV-GOKARNA-SAGARDIGHI-2 | 05-07-2021 | 17:54 | Gok: Z-1, R Ph, 25.49 km, 11.45 KA. | Phase : R ph Fault current : 16.63 KA Fault | R-Earth | <100 | No A/r observed from sagardighi end ,3 phase tripping occurred while at gokarno end A/R operated but was unsuccessful. | NO | YES | WBSETCL | WBP DCL |
| 17 | 220KV-MAITHON-DUMKA-1 | 05-07-2021 | 15:45 | Maithon End:B_N Fault Z2 FD-61 Km FC- 2.915 kA | Dumka End:B_N Fault Z1 FD-1.137 Km Fc-4.46 kA | B-Earth | <100 | Fault clearing time from Dumka end around 550msec | NO | NO | PG-ER-2 | JUSNL |
| 18 | 765KV-NEW RANCHI-MEDINIPUR-1 | 05-07-2021 | 15:26 | New Ranchi End:R_N FD:8.05km FC: 9.3 kA | Medinipur end:R_N FD:234km FC: | R-Earth | <100 | 3 PHASE tripping from ranchi end .Reason may be shared? | YES | NO | PG-ER-1 | |
| 19 | 220KV-GAYA-KHIZERSARAI-1 | 05-08-2021 | 00:19 | Gaya: R-N, 21.3Km, 6.6kA | Khizersarai: Did not trip | R-Earth | <100 | From Gaya end 3 phase tripping while from khezesari A/R successful | YES | NO | PG-ER-1 | BSPT CL |
| 20 | 400KV-GOKARNA-SAGARDIGHI-2 | 05-07-2021 | 18:19 | Gok:- R Ph, Z-1, 25.5 Km, 6.5 KA. | R ph,Fault current : 16.51 KA, Fault Distance : 6.292 | R-Earth | <100 | No A/r observed from sagardighi end ,3 phase tripping occurred while at gokarno end A/R operated but was unsuccessful. | NO | YES | WBSETCL | WBS EDCL |
| 21 | 220KV-CHANDIL-STPS(WBPDCL)-1 | 05-09-2021 | 12:52 | | STPS: Z-1, Y_N, FD-26.21 KM, FC-4.66 KA: CHANDIL: | Y-Earth | <100 | A/R from Chandil end ,STPS end no A/R ,3 phase trip. | YES | NO | JUSNL | WBP DCL |
| 22 | 220KV-MUZAFFARPUR-KANTI-1 | 05-10-2021 | 17:19 | Tripped from Muzaffarpur end only | | R-Earth | <100 | From Muzaffarpur end only R phase opened but didn't reclosed and after 1.5 sec all 3 pole tripped dur to PD OPERATION. | YES | NO | PG-ER-1 | BSPT CL |
| 23 | 400KV-BAHARAMPUR-SAGARDIGHI-1 | 05-11-2021 | 12:30 | Details awaited | Tripped from sagrdighi end only. | NO FAULT | N/A | Some other line fault was sensed in zone-3 from sagrdighi end and ,3 phase tripped immediately from sagrdigi end , No tripping from behrampur end. | NO | YES | PG-ER-2 | WBP DCL |
| 24 | 400KV-FSTPP-KHSTPP-1 | 05-11-2021 | 11:35 | B_N | | B-Earth | <100 | 3 Phase tripping from faracka end while from kahalgaon end A/R successful. | YES | YES | NTPC | |

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|----|----------------------------------|------------|-------|---|--------------------------------------|----------|------|--|-------------------------------------|--|-----|-----|----------|----------|
| 25 | 400KV-NEW PPSP-NEW RANCHI-2 | 05-12-2021 | 14:17 | NPPSP-AR successful Z1 R-N FD-1.9km FC-13.53kA | NRanchi- Z1 R-N FD-79.9km FD-4.6kA | R-Earth | 500 | NPPSP end Z-2 detected but no carrier recvd hence 3 phase tripping from ranchi end afterz-2 time while from ppsp end A/R was successful.Reason for non receipt of carrier may be investigated.to avoid such delayed clarence and line trippings. | | | NO | YES | WBSETCL | PG-ER-1 |
| 26 | 220KV-DALTONGUNJ-GARWAH (NEW)-1 | 13/05/2021 | 02:39 | Daltongunj: BN, 70.1km, 1.63 kA, | Bad weather at Garwah | B-Earth | <100 | Once TRR was successful but again fault in reclaim time in zone-2 from daltonganj but this time no carrier receipt so tripped after z-2 time ,this needs to be avoided ,reason for the same may be faound and rectified. | | | YES | NO | PG-ER-1 | JUSN L |
| 27 | 220KV-CHANDAUTI (PMTL)-SONENAGAR | 13/05/2021 | 02:08 | Chandauti- B-N, 76.2km, If-76A | | B-Earth | 500 | Fault was in z-2 of Chandauti and tripped after z-2 time ,seems no carrier based communication else tripping could have been avoided with A/R.? | | | YES | NO | PG-ER-1 | BSPT CL |
| 28 | 220KV-CHANDAUTI (PMTL)-SONENAGAR | 13/05/2021 | 02:08 | Chandauti- B-N, If-679A | | B-Earth | 500 | Fault was in z-2 of Chandauti and tripped after z-2 time ,seems no carrier based communication else tripping could have been avoided with A/R.? | | | YES | NO | PG-ER-1 | BSPT CL |
| 29 | 400KV-DURGAPUR-SAGARDIGHI-2 | 15/05/2021 | 14:07 | Durgapur: B-N, 3.44kA, 113km | ZONE 1, B-PHASE, 18.02 KA,8.74 KM | B-Earth | <100 | 3 phase tripping from Sagardighi end no A/R? | | | YES | YES | PG-ER-2 | WBP DCL |
| 30 | 220KV-GOKARNA-SAGARDIGHI-2 | 15/05/2021 | 13:27 | GOKARNA: R-N, 25KM, 11KA | Sagardighi: R-N, 15kA, 5.7km | R-Earth | <100 | 3 phase tripping from Sagardighi end no A/R? | | | NO | YES | WBSEDC L | WBS ETCL |
| 31 | 220KV-MAITHON-DUMKA-2 | 15/05/2021 | 12:01 | MAITHON- R-N, 4.7KA, 45KM | Dumka : R-N, Z1, 23KM, 0.9KA. | R-Earth | <100 | 3 phase tripping from both end ,No A/R operation? | | | YES | YES | PG-ER-1 | JUSN L |
| 32 | 220KV-SUBHASGRAM-SUBHASGRAM-2 | 15/05/2021 | 06:23 | SUBHASGRAM (PG) -POWER SWING | AT SUBHASGRAM | NO FAULT | NA | No fault in Line reason may be shared? | | | NO | YES | WBSETCL | PG-ER-2 |
| 33 | 400KV-RANCHI-RAGHUNATHPUR-3 | 16/05/2021 | 15:34 | Ranchi: BN, 58km, 5.52KA, RTPS: Z1, BN, 120km, 3.39KA | RTPS: Z1, BN, 120km, 3.39KA | B-Earth | <100 | At the fault instance ,3 phase TCB also got opened along with R phase MCB at Ranchi end . | DR configuration at each end may be | | YES | YES | PG-ER-1 | DVC |
| 34 | 220KV-DEHRI-GAYA-1 | 17/05/2021 | 22:24 | B-N FAULT, 50.86 km, Fc= 2.91 kA | FAULT, 50.86 km, Fc= 2.91 kA | B-Earth | <100 | A/R successful from Gaya end , Dehri end 3 phase tripping no A/R? | | | YES | YES | PG-ER-1 | BSPT CL |
| 35 | 220KV-GOKARNA-SAGARDIGHI-2 | 17/05/2021 | 15:46 | Gokarna:R-N, 19.59 Km, 10.84 KA; | Sagardighi: R-N, 6km, 16kA | R-Earth | 160 | 3 phase tripping from Sagardighi end no A/R? | | | NO | YES | WBSETCL | WBP DCL |
| 36 | 765KV-ANGUL-JHARSUGUDA-3 | 17/05/2021 | 15:31 | Angul: B-N, 10kA, 2km | JHARSUGUDA: B-N fault, 3.1kA, 280km, | B-Earth | <100 | and after 1 second MCB did not got closed,and after 2 seconds TCB reclosed and was successful so line was charged from Angul end ,while from Jharsuguda end after 1 second A/R unsuccessful and line tripped. | | | YES | YES | PG-ER-3 | |

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|----|--|------------|-------|---|---|----------|------|---|-----|-----|---------|-------------|
| 37 | 400KV-FSTPP-GOKARNA (N Purnea bypass t | 18/05/2021 | 21:41 | FSTPP- B-N, Z2, 4kA, 115km | GOKARNA: Z1,B-N, 16.78KM,11.04K A; FSTPP- B-N, Z2, 4kA, 115km | B-Earth | 500 | Tripped in zone-2 from Farakka , No carrier received at Fstpp end .Carrier communication issue? | YES | NO | NTPC | WBS ETCL |
| 38 | 765KV-NEW RANCHI-MEDINIPUR-2 | 18/05/2021 | 18:43 | N Ranchi: YN, 2.10KA, 255.3km | N, Z1, FD: 9.10KM, FC: 5.592 KA | Y-Earth | <100 | 3 phase tripping from new ranchi no auto reclsoe. | NO | NO | | |
| 39 | 765KV-NEW RANCHI-MEDINIPUR-1 | 18/05/2021 | 17:47 | N Ranchi: RN, 169.5km 3.26ka | Medinipur: Z1, RN, 92km, 3KA | R-Earth | <100 | 3 phase tripping from new ranchi no auto reclsoe. | YES | NO | PG-ER-1 | PMJT L |
| 40 | 220KV-DALTONGUNJ-GARWAH (NEW)-1 | 18/05/2021 | 14:51 | Dal-B-ph,37.16kM,2.784kA | Garwah: Ir-301, Iy-374, Ib-305 | B-Earth | <100 | As one ckt was out radial feed from only pg end so line B phase tripped from pg end while no tripping from garwa end but after 1 sec when A/R unsuccessful from Pg end and 3 phase tripping occurred.Radial feed protection or week infeed required at Garwa end. | YES | YES | PG-ER-1 | JUSN L |
| 41 | 220KV-DALTONGUNJ-GARWAH (NEW)-2 | 18/05/2021 | 14:46 | Dal-Rph,18.46kM,3.706kA | Garwah: Ir- 678A, Iy-73.7A, Ib-188A | R-Earth | <100 | A/R unsuccessful from Garwa end,from Daltonganj end R phase opened but didn't reclosed hence it seems PD operated after 2.5 seconds. | YES | YES | PG-ER-1 | JUSN L |
| 42 | 765KV-NEW RANCHI-MEDINIPUR-2 | 19/05/2021 | 15:02 | New Ranchi: B_N, 3.72 kA, 137.1 KM | 79.1 KM, 0.65 kA | B-Earth | <100 | 3 phase tripping on 1 phase fault | YES | NO | PG-ER-1 | PMJT L |
| 43 | 220KV-GAYA-KHIZERSARAI-1 | 20/05/2021 | 13:16 | Gaya Z1 R-N FC-15.8kA FD-6.25km | | R-Earth | <100 | 3 phase tripping from gaua end at the instance of fault. | YES | NO | PG-ER-1 | |
| 44 | 220KV-CHANDAUTI (PMTL)-SONENAGAR | 20/05/2021 | 03:41 | CHANDAUTI: B-N,Z2. 76.2KM, 0.664KA | Not tripped from Sonenagar End | B-Earth | 560 | after z-2 time ,seems no carrier based communication else tripping coild have been avoided with A/R.? | YES | NO | PMTL | BSPT CL |
| 45 | 220KV-CHANDAUTI (PMTL)-SONENAGAR | 20/05/2021 | 03:41 | CHANDAUTI: B-N,Z2. 76.2KM, 0.665KA | Not tripped from Sonenagar End | B-Earth | 560 | Fault was in z-2 of Chandauti and tripped after z-2 time ,seems no carrier based communication else tripping coild have been avoided with A/R.? | YES | NO | PMTL | BSPT CL |
| 46 | 765KV-NEW RANCHI-MEDINIPUR-1 | 21/05/2021 | 14:52 | R_N, 71.6 KM, 5.8 6kA (New Ranchi); | R_N, 211 KM, 1.871 kA (Medinipur);A/r successful from | R-Earth | <100 | A/R successful from Medinapur , from N ranchi 3 phase trippign. | YES | NO | PG-ER-1 | PG- ER-2 |
| 47 | 400KV-GOKARNA-SAGARDIGHI-2 | 25/05/2021 | 02:34 | Z-1,R-N fault,FC-16.17KA,FD-6.409KM from Gokarna end. | Z-1,R-N fault,FC-16.16KA,FD-6.25KM from Sagardighi end | R-Earth | <100 | No A/r observed from sagardighi end ,3 phase tripping occurred while at gokarno end A/R operated but was unsuccessful. | NO | YES | WBSETCL | WBP DCL |
| 48 | 400KV-GOKARNA-SAGARDIGHI-2 | 25/05/2021 | 02:09 | Z-1,R-N fault,FC-16.07KA,FD-6.22KM from Gokarna end. | Z-1,R-N fault,FC-16.12KA,FD-6.36KM from Sagardighi end | R-Earth | <100 | No A/r observed from sagardighi end ,3 phase tripping occurred while at gokarno end A/R operated but was unsuccessful. | NO | YES | WBSETCL | WBP DCL |
| 49 | 400KV-RENGALI-KEONJHOR(PG)-1 | 26/05/2021 | 20:06 | DT RECEIVED AT RENGALI, KEONJHOR RELAY DID NOT TRIP | | NO FAULT | NA | No fault in PMU reason may be shared. | NO | NO | PG-ER-3 | |

