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NO. ERPC/PROTECTION/2018/

DATE: 07.05.2018

FAX MESSAGE NO. - 186

To,

As per list enclosed.

Sub: Notice for 67th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that 67th PCC meeting of ERPC will be held on 22nd May 2018 (Tuesday) at 10: 30 hrs at ERPC Conference Room, Kolkata.

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 66th Protection sub-Committee Meeting of ERPC
- 2) Follow-up action on decision of previous Protection sub-Committee Meetings
- 3) Analysis of following grid disturbances of April, 2018:

| SI No | Date Time Affected System | | | Summary | Load Ioss (MW) | Gen Ioss (MW) | Fault duration (As Per PMU) |
|----------|------------------------------|-------|-------|---|----------------------|---------------------|--------------------------------------|
| 1 | 07-04- 2018 | 09:56 | DMTCL | At 09:48 hrs 400 KV Motihari – Gorakhpur I and II tripped on Y-N and B- N fault respectively. Thereafter tripping of 400 kV Motihari – Barh D/C at 09:56 hrs on R-Y-B fault resulted in total power failure at 400/132 kV Motihari S/S and other radially connected areas (Birganj, Surajpura, Parwanipur in Nepal; Ramnagar, Betiah, Raxaul, Motihari, Dhaka in Bihar). | 160 | 0 | 500 ms |
| 2 | 07-04- 2018 | 17:20 | ER-II | 220 kV Maithon - Dhanbad D/C, 220 kV Maithon - Kalyaneswari D/C and 220 kV Maithon - Dumka - II along with 220 kV B/C bay at 400/220kV Maithon S/s tripped due to operation of Bus Bar protection. | 0 | 0 | <100 |

| SI No | Date | Time | Affected System | Summary | Load Ioss (MW) | Gen Ioss (MW) | Fault duration (As Per PMU) |
|----------|----------------|-------|--------------------|--|----------------------|---------------------|--------------------------------------|
| 3 | 11-04- 2018 | 20:10 | DVC | At 19:40 hrs 220 kV Maithon – Dhanbad - I tripped on B-N fault. At 20:15 hrs 220 kV Kalyaneswari – CTPS – I tripped due to jumper snapping (suspected) and at 20:18 hrs 220 kV Kalyaneswari – CTPS – II tripped on overload. At the same time, 220 kV Joda – Jindal S/C line tripped from Joda end resulting load loss at radially fed area i.e. Jamshedpur (DVC) through 220 kV Joda – Jindal – Jamshedpur section. | 700 | 0 | <100 |
| 4 | 15-04- 2018 | 06:43 | ISTS | At 06:43 hrs, 220 kV Tashiding Rangpo S/C and 220 kV Tashiding New Melli S/C tripped on Y-N fault resulting in tripping of running unit at Tashiding due to loss of evacuation path. At the same time 220 kV Jorethang New Melli - I tripped from Jorethang end. | 0 | 50 | <100 |
| 5 | 17-04- 2018 | 10:37 | CESC | At 10:37 hrs, 220 kV Subhasgram - EMSS D/C tripped due to operation of line differential relay at EMSS end (R phase for Circuit II and B phase for Circuit I) resulting load loss at radially connected loads i.e. New Cossipore, Kasba, Dum Dum and B/T road. | 500 | 0 | <100 |
| 6 | 30-04- 2018 | 05:48 | BSPTCL | At 05:48 hrs 220 kV Purnea - Madhepura I tripped on B-N fault causing load loss at Madhepura, Supaul and Lahan (Nepal). | 60 | 0 | <100 |
| 7 | 07-04- 2018 | 18:25 | DMTCL | At 18:25 hrs, 400/132 kV ICT - II at Motihari tripped due to overload protection resulting total power failure at 132 kV side bus and nearby area. 400 kV side of the Motihari was remained charged through 400 kV Barh - Motihari D/C. Power supply to Nepal also got interrupted due to this incident. | 177 | 0 | <100 |
| 8 | 20-04- 2018 | 10:35 | BSPTCL | At 10:35 hrs 132 kV KhSTPP - Lalmatia S/C and 132 kV Kahalgaon (BSPTCL) - Lalmatia S/C tripped from Lalmatia resulting load loss at Sahebgunj | 30 | 0 | No fault has been observed |
| 9 | 21-04- 2018 | 21:30 | DMTCL | 132 KV Motihari-Raxaul D/c tripped from Raxaul end only on O/C. | 120 | 0 | No fault has been observed |

| 10 | 26-04- 2018 | 09:15 | DMTCL | At 09:15 Hrs, 132 KV Motihari-Raxaul –II tripped on R-N fault and consequently 132 KV Motihari-Raxaul –I also tripped on over current causing load loss of 40 MW at Raxaul and 70 MW load interruption to Nepal. | 110 | 0 | No fault has been observed |
|----|----------------|-------|-------|---|-----|---|----------------------------------|
|----|----------------|-------|-------|---|-----|---|----------------------------------|

4) Single line tripping incidences of April, 2018 is enclosed at **Annexure-I**.

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 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 <u>www.erpc-protectiondb.in</u>.

Your participation in the meeting is highly solicited. Please confirm your participation in the meeting along with name and designation of the participants.

Yours faithfully,

-sd-(J. Ganeswara Rao) Executive Engineer

LIST OF ADDRESSES:

| Chief Engineer, Trans (O&M) | Electrical Superintending Engineer (CRITL) |
|---|---|
| Bihar State Power Transmission Limited, Vidyut | Bihar State Power Transmission Limited, Vidyut |
| Bhawan, Bailey Road, Patna-800021 | Bhawan, Bailey Road, Patna-800021 |
| Chief Engineer (SLDC) | Chief Engineer (CTC) |
| Damodar Valley Corporation, GOMD-I Premises, | Damodar Valley Corporation, P.O. Maithon Dam, |
| P.O Danesh Seikh Lane, Howrah- 711109 | Dist. Dhanbad, Jharkhand-828207 |
| Chief Engineer, Trans (O&M) | Electrical Superintending Engineer (CLD) |
| Jharkhand Urja Sancharan Nigam Limited | Jharkhand Urja Sancharan Nigam Limited, |
| Kusai Colony, Doranda, Ranchi-834002 | Kusai Colony, Doranda, Ranchi-834002 |
| Chief General Manager (O&M), | Sr. General Manager (PPA), Technical Wing, |
| OPTCL, Janpath, Bhubaneswar, | OHPCL, Orissa State Police Housing & Welfare |
| Odisha – 751 022. FAX: 0674-2542932 | Corpn. Bldg. Vanivihar Chowk, |
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| Chief Load Dispatcher, SLDC | Chief Engineer (Testing), WBSETCL |
| OPTCL, P.O. Mancheswar Rly. Colony | Central Testing Laboratory, Abhikshan, Salt Lake, |
| Bhubaneswar-751017 | Kolkata-700091 (Fax no. 2367-3578/1235) |
| Chief Engineer (CLD) | Addl. Chief Engineer (ALDC) |
| WBSETCL, P.O. Danesh Sheikh Lane, | West Bengal Electricity Distribution Company Ltd |
| Andul Road, Howrah-711109 | Vidyut Bhavan, 7 th Floor, Bidhannagar, Sector-I |
| | Salt Lake City, Kolkata-700091(Fax-033-2334-5862) |
| Dy. Chief Engineer (Testing)/ Sr. Manager (Testing) | General Manager (O&M) |
| CESC Ltd.,4, Sasi Sekhar Bose Road, | KhSTPS, NTPC Ltd., P.O. Deepti Nagar, |
| Kolkata-700025 | Dist. Bhagalpur, Bihar-813203 |

| General Manager (O&M)Dy. General Manager (Engineering),FSTPS, NTPC Ltd., P.O. Nabarun,WBPDCL,OS Dept. Corporate Office, 3/C,L.A BloDist. Murshidabad, West Bengal-742236Salt Lake-III, Kolkata-700098 (Fax-033-23350516General Manager (O&M)General Manager (OS), ERHQ-II, NTPC Ltd., 3 rd flBarh STPS, NTPC Ltd., P.O. NTPC Barh,OLIC Building, Plot no. N 17/2, Nayapalli, Unit-8Dist. Patna, Bihar-803213Bhubaneswar- 751012 (Fax No. 0674-2540919)General Manager (O&M), TSTPS, NTPC Ltd.,Projects, Sahid Nagar, Bhubaneswar - 751 007General Manager (OS), ERHQ-I, NTPC Ltd.,Projects, Sahid Nagar, Bhubaneswar - 751 007General Manager (OS), ERHQ-I, NTPC Ltd.,Manager (Electrical), Adhunik Power & NaturalLoknayak Jaiprakash Bhawan, (2 nd Floor),Resources Ltd. "Lansdowne Towers, Kolkata-70000Dak Bunglow Chawk, Patna-800001(Fax No. 033-2289 0285)Executive Director (O&M)Electrical Superintending Engineer, TTPS, Tenughat Vidyut Nigam Ltd., Lalpania, Dist. Bokar Jharkhand-829149Dy. General Manager (Electrical)General Manager (OS), ER-I Power Grid Corporation of India Ltd., Banhapalli, Dist. Jharsuguda-768234,Orissa |
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| Dist. Murshidabad, West Bengal-742236Salt Lake-III, Kolkata-700098 (Fax-033-23350516General Manager (O&M)General Manager (OS), ERHQ-II, NTPC Ltd., 3 rd flBarh STPS, NTPC Ltd., P.O. NTPC Barh,OLIC Building, Plot no. N 17/2, Nayapalli, Unit-8Dist. Patna, Bihar-803213Bhubaneswar- 751012 (Fax No. 0674-2540919)General Manager(O&M), TSTPS, NTPC Ltd.,General Manager (O&M), POWERGRID, OdisP.O.Kaniha, Dist. Angul, Orissa-759117Projects, Sahid Nagar, Bhubaneswar – 751 007General Manager(OS), ERHQ-I, NTPC Ltd.,Manager (Electrical), Adhunik Power & NaturalLoknayak Jaiprakash Bhawan, (2 nd Floor),Resources Ltd. "Lansdowne Towers, Kolkata-7000Dak Bunglow Chawk, Patna-800001(Fax No. 033-2289 0285)Executive Director (O&M)Electrical Superintending Engineer, TTPS, Tenughat Vidyut Nigam Ltd., Lalpania, Dist. Bokar Jharkhand-829149Dy. General Manager (Electrical)General Manager (OS), ER-I Power Grid Corporation of India Ltd., |
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| 1 |
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| |
| Chief Engineer (Trans.) Sr. Manager (CTMC) |
| Power Deptt., Govt. of Sikkim, Gangtok-731010 Durgapur Projects Limited, Durgapur-713201 |
| Executive Director, Head Construction, ENCIL, Siliguri-7340051 |
| ERLDC, POSOCO, Tollygunge,Kolkata-700033 |
| General Manager (OS), ER-II Shri A.K.Nayak/Shri Sumit S Ghosh |
| Power Grid Corporation of India Ltd.,Maithon Power Limited, Maithon Office, MA 5 |
| J-I-15, Block-EP, Sector-V,Salt Lake,Kolkata-91 Gogna, Dist. Dhanbad, Jhankand State, PIN-828207 |
| General Manager (P&O), PTC Ltd., Vice President, Vedanta Ltd. |
| Kanchanjunga Bldg.,18, Barakhamba Road, 1 st Floor, Module C/2, Fortune Tower, C S Pur, |
| New Delhi-110001Bhubaneswar- 751023 |
| Managing Director, Bhutan Power CorporationManaging Director, Druk Green Power Corprn. |
| Post Box no. 580, Thimpu, Bhutan.P.O. Box-1351, Thimpu, Bhutan. |
| General Manager, Darbhanga(Bihar), Darbhanga Shri Brajesh Kumar Pande, Plant Head, JITPL. |
| Motihari Transmission Company Limited (DMTCL) (FAX:011-26139256-65) |
| Shri D. P. Bhagava, Chief Consultant (O&M), Teesta Director (GM Division), Central Electricity Authori |
| Urja Limited, New Delhi (FAX:011-46529744) Sewa Bhawan, R. K. Puram, New Delhi-110066 |
| Director (NPC), CEA, NRPC Building, Katwaria President, Dans Energy Pvt. Ltd, 5th Floor, DLF |
| Sarai, New Delhi- 110016 Building No. 8, Tower-C, Gurgaon - 722OO2 |
| Director, Shiga Energy Pw. Ltd., 5th Floor, DLF |
| Building No. 8, Tower-C, Gurgaon - 722OO2 |

CC:

| ASSISTANT SECRETARY, ERPC | |
|---------------------------|--|
| | |

| List of important transmission lines in ER which tripped in April 2018 | | | | | | | | | | |
|--|------------|--------------|---------------------|----------------------|--|---|-------------------------------|------------------------------------|---------------------------|--|
| | TRIP DATE | TRIP TIME | RESTORATION DATE | RESTORATIO N TIME | Relay Indication LOCAL END | Relay Indication REMOTE END | Reason | Fault Clearance time in msec | Remarks | |
| Fault Clearing time violating protection standard | | | | | | | | | | |
| 400KV MALBASE-BINAGURI-I | 17-04-2018 | 20:38 | 17-04-2018 | 21:18 | | R_N, F.D. 129.8 KM, F.C. 2.6 kA | R-N FAULT | 500 msec | No Auto Reclose operation | |
| 400KV MOTIHARI-BARH-II | 23-04-2018 | 13:02 | 23-04-2018 | 13:32 | B-N,F/D-30 KM , F/C-1.6KA | B-n,z-2 , f/c-800 amps | B-N FAULT | 500 msec | | |
| 220KV JODA-RAMCHANDRAPUR-SC | 09-04-2018 | 11:36 | 09-04-2018 | 12:14 | Z1,y_n,63.04 km,1.07 KA | z3,Y_N,1.2 KA,100 KM | Y-N FAULT | 1000 msec | | |
| Multiple tripping at the same time | | | | | | | | | | |
| 400KV FSTPP-KhSTPP-IV | 10-04-2018 | 19:18 | 10-04-2018 | 20:22 | A/R SUCCESSFUL | B-N, 10 KM, 28 KA | B-N FAULT | | | |
| 400KV MAITHON-KhSTPP-II | 10-04-2018 | 19:18 | 10-04-2018 | 20:16 | DT Reciept | | DT Recieped at Maithon | | | |
| Miscellaneous: Tripping on DT, No Fault observed in PMU | | | | | | | | | | |
| 400KV RANCHI-ROURKELA-I | 05-04-2018 | 10:34 | 05-04-2018 | 11:06 | Did not trip | DT received | DT RECEIVED AT ROURKELA | | No fault observed in PMU | |
| 400KV PATNA-BALIA-III | 08-04-2018 | 7:29 | 08-04-2018 | 8:29 | | DT received | DT RECEIVED AT BALIA | | | |
| 220KV MUZAFFARPUR-HAJIPUR-I | 19-04-2018 | 13:20 | 19-04-2018 | 13:31 | Did not trip | Tripped from Hajipur end only | Tripped from Hajipur end only | | No fault observed in PMU | |
| | | | | Αι | itoreclose related i | ssues | | | | |
| 400KV MEERAMUNDALI-MENDHASAL-SC | 01-04-2018 | 17:25 | 01-04-2018 | 18:25 | B-N FAULT | | B-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV GAYA-KODERMA-II | 01-04-2018 | 17:27 | 01-04-2018 | 19:07 | B-N FAULT | | B-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV MEERAMUNDALI-MENDHASAL-SC | 04-04-2018 | 17:25 | 04-04-2018 | 17:38 | B-N / 30 KM , 6 KA | | B-N FAULT | < 100 msec | No Auto Reclose operation | |
| 220KV BIDHANNAGAR-WARIA-I | 07-04-2018 | 14:39 | 07-04-2018 | 15:35 | R-N,Z2,13.8Km,FC-8.47KA from Durgapur end | Z1,R-N Fault, FD 3.457 Km FA -13.936 KA @ Waria end | R-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV BINAGURI-RANGPO-I | 08-04-2018 | 13:52 | 08-04-2018 | 14:03 | R_N | Did not trip | R-N FAULT | < 100 msec | No Auto Reclose operation | |
| 220KV TTPS-TSTPP-SC | 09-04-2018 | 14:33 | 09-04-2018 | 15:20 | | Z1, R-N, 10.77KA | R-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV MAITHON-KhSTPP-II | 09-04-2018 | 17:15 | 09-04-2018 | 17:28 | Y-N, 6.53KA, 21.4km | A/R SUCCESSFUL | Y-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV MAITHON-KhSTPP-I | 09-04-2018 | 17:23 | 09-04-2018 | 18:36 | B-N,8.1KA | B-N, 2.6KA, 158KM | B-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV MAITHON-MAITHON RB-II | 09-04-2018 | 17:36 | 09-04-2018 | 17:47 | B_N, 5.91 KM, 14.12 kA | B_N, 24 KM, 4.73 kA | B-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV DURGAPUR-SAGARDIGHI-II | 09-04-2018 | 19:18 | 09-04-2018 | 19:31 | Y-N, 92.12KM, 3.673KA, A/R successful | | Y-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV NEW PPSP-ARAMBAGH-I | 09-04-2018 | 20:25 | 09-04-2018 | 20:54 | Y_N,F.D. 191 KM, A/R successful | Y_N, F.D. 26 KM, F.C. 7.92 kA | Y-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV NEW PPSP-ARAMBAGH-I | 09-04-2018 | 21:16 | 10-04-2018 | 13:39 | | Z-1, Y-N, 8.9KA, 20.09Km | Y-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV TSTPP-ROURKELA-I | 10-04-2018 | 0:47 | 10-04-2018 | 1:37 | TRIPPED FROM TALCHER END ONLY | | B-N FAULT | < 100 msec | No Auto Reclose operation | |
| 400KV DARBHANGA (DMTCL)-MUZAFFARPUR-II | 10-04-2018 | 13:54 | 10-04-2018 | 14:33 | BN,47.3KM,5.06KA,Z1 | BN,4.7KM,13.09KA,Z1 | B-N FAULT | < 100 msec | No Auto Reclose operation | |

| LINE NAME | TRIP DATE | trip Time | RESTORATION DATE | RESTORATIO N TIME | Relay Indication LOCAL END | Relay Indication REMOTE END | Reason | Fault Clearance time in msec | Remarks |
|----------------------------------|------------|--------------|---------------------|----------------------|---|--|------------------|------------------------------------|--|
| 400KV RANCHI-RAGHUNATHPUR-II | 10-04-2018 | 16:22 | 10-04-2018 | 17:06 | YN, 132 KM, A/R Successful | YN,Z1,27.67 KM,9.5 KA | Y-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV KHARAGPUR-CHAIBASA-II | 10-04-2018 | 18:22 | 10-04-2018 | 19:08 | Y-N, Z2, 163.4 KM, 1.171 KA, A/R successful | YN,Z1, 10.59 KA, 8.7 KM | Y-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV BARIPADA-BALASORE-II | 12-04-2018 | 14:49 | 12-04-2018 | 16:49 | | B-N,FD 68 KM,FC 1.3 KA | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 765KV GAYA-VARANASI-II | 13-04-2018 | 10:12 | 20-04-2018 | 0:19 | RN,264 KM, 2.9 KM | RN,0.14 KM | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV KOLAGHAT-ARAMBAGH-SC | 14-04-2018 | 19:14 | 14-04-2018 | 19:38 | B-N, ZONE -1 , 34.8KM, 6.075 KA, A/R sucessful | B-N, ZONE 1 , 35.9KM, 5.7KA, | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV KOLAGHAT-ARAMBAGH-SC | 16-04-2018 | 17:38 | 16-04-2018 | 18:04 | R-N FAULT | | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV KHARAGPUR-CHAIBASA-II | 17-04-2018 | 15:22 | 17-04-2018 | 15:31 | B_N,79 KM, 3.35 kA, A/R successful | | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV MEERAMUNDALI-MENDHASAL-SC | 17-04-2018 | 17:56 | 17-04-2018 | 18:28 | B_N, 26.7 KM, 7.25 kA | | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV KATAPALLI-BOLANGIR(PG)-SC | 18-04-2018 | 13:11 | 18-04-2018 | 13:41 | B_N,53.91 KM, 2.84 kA | B_N, 75.8 KM, 1.36 kA | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV BINAGURI-BIRPARA-I | 21-04-2018 | 23:32 | 22-04-2018 | 23:54 | B_N, 30.73 KM, 3.91 kA ,A/R successful | | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV KHARAGPUR-CHAIBASA-I | 23-04-2018 | 17:39 | 23-04-2018 | 17:49 | Z-1;Y-N,67.39 KM,2.857 KA,A/R SUCCESSFUL | Y-N,112.4 2.29 KA | Y-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV ROURKELA-CHAIBASA-I | 24-04-2018 | 15:02 | 25-04-2018 | 0:11 | Y_N, 83.4 KM, 4.7 kA | Y_N, 40 KM, 6.13 kA | Y-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV DALKHOLA-PURNEA-II | 26-04-2018 | 10:07 | 26-04-2018 | 10:20 | | B_N, 25.82 KM, 4.092 kA | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV ARAMBAGH-BAKRESWAR-SC | 26-04-2018 | 19:01 | 26-04-2018 | 19:27 | BN,Z1, 26.4 KM,5.04 KA | A/R successful, BN, 107.8 KM, 2.61 KA | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV SUBHASGRAM(PG)-NEW TOWN-SC | 26-04-2018 | 20:46 | 26-04-2018 | 21:01 | R-N FAULT | A/R SUCCESSFUL | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV KHARAGPUR-CHAIBASA-I | 27-04-2018 | 18:39 | 27-04-2018 | 19:01 | A/R SUCCESSFUL | 3.57 KA, R-N, 78.9 KM @CHAIBASA | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV MAITHON-DUMKA-II | 28-04-2018 | 7:18 | 28-04-2018 | 8:48 | RN,6.4 KM, Z1 | | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV MADHEPURA-NEW PURNEA-I | 29-04-2018 | 4:50 | 29-04-2018 | 4:58 | | AUTO RECLOSURE SUCCESSFUL | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 220KV CHANDIL-RANCHI-I | 29-04-2018 | 18:48 | 29-04-2018 | 19:08 | R-N ,4KA, | | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV MEERAMUNDALI-ANGUL-I | 29-04-2018 | 21:14 | 29-04-2018 | 22:02 | R_N,6.6 KM | A/R SUCCESSFUL | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV MOTIHARI-GORAKHPUR-1 | 29-04-2018 | 23:49 | 30-04-2018 | 0:10 | R_N, 1.687 kA, 147.1 KM | A/R SUCCESSFUL | R-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV BINAGURI-NEW PURNEA-II | 30-04-2018 | 6:11 | 30-04-2018 | 6:46 | B_N, 15.7 KM, 9.77 kA, A/R successful | | B-N FAULT | < 100 msec | No Auto Reclose operation |
| 400KV RANCHI-RAGHUNATHPUR-III | 05-04-2018 | 15:38 | 05-04-2018 | 16:34 | B-N Fault F/D 143.8 KM ,F/C 2.94KA | | B-N FAULT | < 100 msec | Delayed fault clearance during Auto reclosure |
| 400KV JEERAT-NEW CHANDITALA-SC | 17-04-2018 | 19:30 | 17-04-2018 | 21:03 | B_N, Z II, 3.13 kA,69.78 KM | B_N, 4.945 KM, 10.93 kA, Z I | B-N FAULT | < 100 msec | Different timing of A/R in both end |
| 220KV MAITHON-DHANBAD-II | 21-04-2018 | 14:26 | 21-04-2018 | 20:42 | Y-N.6.6KA , F/D21 KM , A/R UNSUCCESSFUL | | Y-N FAULT | < 100 msec | Different timing of A/R in both end |