



Eastern Regional Power Committee

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

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

NO. ERPC/PROTECTION/2019/

DATE: 06.03.2019

FAX MESSAGE NO. - 586

To,

As per list enclosed.

Sub: Notice for 77th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that **77th PCC meeting** of ERPC will be held on **26th March 2019 (Tuesday)** at 11:00 hrs at **ERPC Conference Room, Kolkata.**

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 76th Protection sub-Committee Meeting of ERPC
- 3) Analysis of following grid disturbances of February, 2019:

SI No	GD/GI	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)
1	GI-I	03-02-2019	18:43	WBPDC	Due to B phase CT failure of Bus coupler Bay and actuation of Bus bar protection, 220 kV Sagardighi - New Sagardighi D/C tripped along with 400/220 kV ICT - I at Sagardighi and unit I at Sagardighi.	0	300
2	GI-II	11-02-2019	14:54	WBPDC	400 kV bus II at Bakreswar tripped at 14:54 hrs due to Y-N fault at 400 kV Arambag - Bakreswar S/C resulting tripping of 400/220 kV ICT - II at Bakreswar along with Unit-II GT.	0	0
3	GI-II	25-02-2019	21:32	DVC	At 21:32 hrs, 400 kV Biharshariff-Koderma I & 400 kV Bokaro-Koderma I tripped from both ends along with bus I and two running units. LBB protection operated for tie bay between ST-I & GT-I. It is reported that insulation failure occurred in CT associated with GT 1 which was about to be synchronized.	0	900
4	GI-II	26-02-2019	17:50	OPTCL	At 17:50 hrs, 400 kV bus I at Meramundali tripped due to LBB operation of tie breaker between 400 kV Meramundali - New Duburi - I and 400 kV Meramundali - Mendasal S/C resulting tripping of all elements from bus I at Meramundali.	0	0

4) Single line tripping incidences of February-2019 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 www.erpc-protectiondb.in.

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) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey Road, Patna-800021	Electrical Superintending Engineer (CRITL) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey Road, Patna-800021
Chief Engineer (SLDC) Damodar Valley Corporation, GOMD-I Premises, P.O.- Danesh Sheikh 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	Electrical Superintending Engineer (CLD) Jharkhand Urja Sancharan 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 Vidyut Bhavan, 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, Sasi Sekhar 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 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., Loknayak Jaiprakash Bhawan, (2 nd Floor), Dak Bunglow 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 (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 Construction, ENCIL, Siliguri-7340051
General Manager (OS), ER-II Power Grid Corporation of India Ltd., J-I-15, Block-EP, Sector-V, Salt Lake, Kolkata-91	Shri A.K.Nayak/Shri Sumit S Ghosh Maithon Power Limited, Maithon Office, MA 5 Gogna, Dist. Dhanbad, Jharkhand State, PIN-828207
General Manager (P&O), PTC Ltd., Kanchanjunga Bldg., 18, Barakhamba Road, New Delhi-110001	Vice President, Vedanta Ltd. 1 st Floor, Module C/2, Fortune Tower, C S Pur, Bhubaneswar- 751023
Managing Director, Bhutan Power Corporation	Managing Director, Druk Green Power Corpn.

Post Box no. 580, Thimpu, Bhutan.	P.O. Box-1351, Thimpu, Bhutan.
General Manager, Darbhanga(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL)	Shri Brajesh Kumar Pande, Plant Head, JITPL. (FAX:011-26139256-65)
Shri D. P. Bhagava, Chief Consultant (O&M), Teesta Urja 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

CC:

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

Tripping Name	Tripping Date&Time	Element Type	Element Name	From Owner	From Station	FIR(F)	DR(F)	EL(F)	To Owner	To Station	FIR(T)	DR(T)	EL(T)
400KV ALIPURDUAR-BONGAIGAON-II	28-02-2019 20:25:00	Transmission Line	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-BONGAIGAON-2	POWERGRID	400 KV-ALIPURDUAR PGCIL 400/220kv	✗	✗	✗	POWERGRID	400 KV-BONGAIGAON	✗	✗	✗
400KV MALBASE-BINAGURI-I	28-02-2019 13:26:00	Transmission Line	400 KV-MALBASE-400 KV-Binaguri 400 Kv-1	BHUTAN	400 KV-MALBASE	✗	✗	✗	POWERGRID	400 KV-Binaguri 400 Kv	✗	✗	✗
220KV NEW MELLI-TASHIDING-SC	28-02-2019 11:57:00	Transmission Line	220 KV-NEW MELLI 220KV-220 KV-TASHIDING HEP 11/220KV GS-1	POWERGRID	220 KV-NEW MELLI 220KV	✗	✗	✗	DANS POWER	220 KV-TASHIDING HEP 11/220KV GS	✗	✗	✗
400 KV-BARIPADA KUCHEI 400KV-400 KV-PANDIABIL 400KV(PGCIL)-1	27-02-2019 23:44:00	Transmission Line	400 KV-BARIPADA KUCHEI 400KV-400 KV-PANDIABIL 400KV(PGCIL)-1	POWERGRID	400 KV-BARIPADA KUCHEI 400KV	✓	■	■	POWERGRID	400 KV-PANDIABIL 400KV(PGCIL)	✗	✗	✗
220KV BARIPADA-BALASORE-I	27-02-2019 12:15:00	Transmission Line	220 KV-KUCHEI BARIPADA 400KV-220 KV-BALASORE 220KV-1	POWERGRID	220 KV-KUCHEI BARIPADA 400KV	✓	■	■	OPTCL	220 KV-BALASORE 220KV	✗	■	■
220 KV-DMTCL DARBHANGA 400KV-220 KV-LAUKAHI 220/132/33KV-1	27-02-2019 10:34:00	Transmission Line	220 KV-DMTCL DARBHANGA 400kv-220 KV-LAUKAHI 220/132/33KV-1	DMTCL	220 KV-DMTCL DARBHANGA 400KV	✗	✗	✗	BSPTCL	220 KV-LAUKAHI 220/132/33KV	✗	✗	✗
220KV DARBHANGA (DMTCL)-MOTIPUR-II	27-02-2019 09:43:00	Transmission Line	220 KV-DMTCL DARBHANGA 400kv-220 KV-MOTIPUR 220 KV-2	DMTCL	220 KV-DMTCL DARBHANGA 400kv	✗	✗	✗	BSPTCL	220 KV-MOTIPUR 220 KV	✗	✗	✗
400 KV-BANKA 400KV-400 KV-BIHARSHARIFF 400KV-1	27-02-2019 06:01:00	Transmission Line	400 KV-BANKA 400KV-400 KV-BIHARSHARIFF 400KV-1	POWERGRID	400 KV-BANKA 400KV	✗	✗	✗	POWERGRID	400 KV-BIHARSHARIFF 400KV	✗	✗	✗
400 KV-Kharagpur 400KV-400 KV-New Chanditola 400 kv-1	27-02-2019 04:19:00	Transmission Line	400 KV-Kharagpur 400kv-400 KV-New Chanditola 400 kv-1	WBSETCL	400 KV-Kharagpur 400KV	✗	✗	✗	WBSETCL	400 KV-New Chanditola 400 kv	✗	✗	✗
Meeramundali Incidence	26-02-2019 17:50:00	Transmission Line	400 KV-MERAMUNDALI 400KV-400 KV-MENDHASAL-1	OPTCL	400 KV-MERAMUNDALI 400KV	✗	✗	✗	OPTCL	400 KV-MENDHASAL	✗	✗	✗
	26-02-2019 17:50:00	Transmission Line	400 KV-MERAMUNDALI 400KV-400 KV-NEW DUBURI 400KV-1	OPTCL	400 KV-MERAMUNDALI 400KV	✗	✗	✗	OPTCL	400 KV-NEW DUBURI 400KV	✓	✗	✗
	26-02-2019 17:50:00	Transmission Line	400 KV-MERAMUNDALI 400KV-400 KV-NEW DUBURI 400KV-2	OPTCL	400 KV-MERAMUNDALI 400KV	✗	✗	✗	OPTCL	400 KV-NEW DUBURI 400KV	✓	■	✗
	26-02-2019 17:50:00	Bus	400 KV-MERAMUNDALI 400KV--1	OPTCL	400 KV-MERAMUNDALI 400KV	✗	✗	✗	OPTCL		✗	✗	✗
	26-02-2019 17:50:00	Transformer	400 KV-MERAMUNDALI 400KV--1	OPTCL	400 KV-MERAMUNDALI 400KV	✗	✗	✗	OPTCL		✗	✗	✗
765KV JHARSUGUDA-DARLIPALI-I	26-02-2019 17:47:00	Transmission Line	765 KV-JHARSUGUDA 765 KV-765 KV-DARLIPALI SUPER THERMAL-1	POWERGRID	765 KV-JHARSUGUDA 765 KV	✓	✗	✗	NTPC	765 KV-DARLIPALI SUPER THERMAL	✗	✗	✗
400KV FSTPP-KhSTPP-IV	26-02-2019 09:40:00	Transmission Line	400 KV-Farakka(400/220/15.75)-400 KV-KAHALGAON 400KV-4	NTPC	400 KV-Farakka(400/220/15.75)	✗	✗	✗	NTPC	400 KV-KAHALGAON 400kv	✗	✗	✗
400 KV-SAGARDIGHI(SGTPP)-400 KV-JEERAT 400KV-1	26-02-2019 02:12:00	Transmission Line	400 KV-SAGARDIGHI(SGTPP)-400 KV-JEERAT 400KV-1	WBPDCL	400 KV-SAGARDIGHI(SGTPP)	✗	✗	✗	WBSETCL	400 KV-JEERAT 400kv	✗	✗	✗
400 KV-Koderma_G(400/220/21kv)-400 KV-BIHARSHARIFF 400KV-1	25-02-2019 21:32:00	Transmission Line	400 KV-Koderma_G(400/220/21kv)-400 KV-GAYA 765KV-1		400 KV-Koderma_G(400/220/21kv)				POWERGRID	400 KV-GAYA 765KV	✗	✗	✗
	25-02-2019 21:32:00	Transmission Line	400 KV-Koderma_G(400/220/21kv)-400 KV-BIHARSHARIFF 400KV-1	DVC	400 KV-Koderma_G(400/220/21kv)	✗	✗	✗	POWERGRID	400 KV-BIHARSHARIFF 400KV	✗	✗	✗
	25-02-2019 21:32:00	Transmission Line	400 KV-Koderma_G(400/220/21kv)-400 KV-BTPSA_D(400/220/33/21kv)-1	DVC	400 KV-Koderma_G(400/220/21kv)	✗	✗	✗	DVC	400 KV-BTPSA_D(400/220/33/21kv)	✗	✗	✗
	25-02-2019 21:32:00	Generator	400 KV-Koderma_G(400/220/21kv)-1	DVC	400 KV-Koderma_G(400/220/21kv)	✗	✗	✗	DVC		✗	✗	✗
	25-02-2019 21:32:00	Generator	GENERATOR-Koderma_G(400/220/21kv)-2	DVC	GENERATOR-Koderma_G(400/220/21kv)	✗	✗	✗	DVC		✗	✗	✗
400KV KISHANGANJ-RANGPO-I [Belongs to M/s TVTPL]	25-02-2019 13:18:00	Transmission Line	400 KV-KISHANGANJ 400KV-400 KV-RANGPO 400KV-1	POWERGRID	400 KV-KISHANGANJ 400KV	✗	✗	✗	POWERGRID	400 KV-RANGPO 400KV	✗	✗	✗
220KV MADHEPURA-NEW PURNEA-I	25-02-2019 12:47:00	Transmission Line	220 KV-MADHEPURA 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-MADHEPURA 220KV	✗	✗	✗	POWERGRID	220 KV-NEW PURNEA 400KV	✗	✗	✗
400KV BINAGURI-BONGAIGAON-I	25-02-2019 12:43:00	Transmission Line	400 KV-Binaguri 400 Kv-400 KV-BONGAIGAON-1	POWERGRID	400 KV-Binaguri 400 Kv	✗	✗	✗	POWERGRID	400 KV-BONGAIGAON	✗	✗	✗
400KV NEW PPSP-NEW RANCHI-II	25-02-2019 11:17:00	Transmission Line	400 KV-New_PPSP 400kv-400 KV-Ranchi_N(765/400kv)-2		400 KV-New_PPSP 400kv				POWERGRID	400 KV-Ranchi_N(765/400kv)	✗	✗	✗
400KV BIDHANNAGAR-ARAMBAGH-SC	25-02-2019 03:58:00	Transmission Line	400 KV-BIDHANNAGAR/DURGAPR 400KV-400 KV-Arambag 400kv-1	WBSETCL	400 KV-BIDHANNAGAR/DURGAPR 400KV	✗	✗	✗	WBSETCL	400 KV-Arambag 400kv	✗	✗	✗
400 KV-Arambag 400kv-400 KV-BAKRESWAR 400kv-1	25-02-2019 03:00:00	Transmission Line	400 KV-Arambag 400kv-400 KV-BAKRESWAR 400kv-1	WBSETCL	400 KV-Arambag 400kv	✗	✗	✗	WBPDCL	400 KV-BAKRESWAR 400kv	✓	■	■
220 KV-JODA220KV-220 KV-Ramchandrapur(220/132/33kv)-1	25-02-2019 00:54:00	Transmission Line	220 KV-JODA220KV-220 KV-Ramchandrapur(220/132/33kv)-1	OPTCL	220 KV-JODA220KV	✗	✗	✗	JUSNL	220 KV-Ramchandrapur(220/132/33kv)	✗	✗	✗
400KV KHARAGPUR-CHAIBASA-II	22-02-2019 13:24:00	Transmission Line	400 KV-Kharagpur 400kv-400 KV-Chaibasa(400/220kv)-2	WBSETCL	400 KV-Kharagpur 400kv	✗	✗	✗	POWERGRID	400 KV-Chaibasa(400/220kv)	✗	✗	✗
220KV JODA-RAMCHANDRAPUR-SC	21-02-2019 13:31:00	Transmission Line	220 KV-JODA220KV-220 KV-RAMCHANDRAPUR 220/132/33KV-1	OPTCL	220 KV-JODA220KV	✗	✗	✗	JUSNL	220 KV-RAMCHANDRAPUR 220/132/33KV	✗	✗	✗
400 KV-RAJARHAT(400/220KV)-400 KV-SUBHAS GRAM PGCIL 400kv-1	20-02-2019 00:43:00	Transmission Line	400 KV-RAJARHAT(400/220KV)-400 KV-SUBHAS GRAM PGCIL 400kv-1	POWERGRID	400 KV-RAJARHAT(400/220KV)	✗	✗	✗	POWERGRID	400 KV-SUBHAS GRAM PGCIL 400kv	✗	✗	✗
400 KV-SUBHAS GRAM PGCIL 400KV-400 KV-RAJARHAT(400/220KV)-1	19-02-2019 23:51:00	Transmission Line	400 KV-SUBHAS GRAM PGCIL 400kv-400 KV-RAJARHAT(400/220KV)-1	POWERGRID	400 KV-SUBHAS GRAM PGCIL 400kv	✗	✗	✗	POWERGRID	400 KV-RAJARHAT(400/220KV)	✗	✗	✗
400KV JHARSUGUDA-RAIGARH-I	19-02-2019 16:12:00	Transmission Line	400 KV-JHARSUGUDA 765 KV-400 KV-RAIGARH_PGCIL-1	POWERGRID	400 KV-JHARSUGUDA 765 KV	✓	■	■	WESTERN REGION	400 KV-RAIGARH_PGCIL	✗	✗	✗
220 KV-CHUKHA-220 KV-BirparaPGCIL-1&2 Tripping	16-02-2019 16:38:00	Transmission Line	220 KV-CHUKHA-220 KV-BirparaPGCIL-1	BHUTAN	220 KV-CHUKHA	✗	✗	✗	POWERGRID	220 KV-BirparaPGCIL	✗	✗	✗
	16-02-2019 16:38:00	Transmission Line	220 KV-CHUKHA-220 KV-BirparaPGCIL-2	BHUTAN	220 KV-CHUKHA	✗	✗	✗	POWERGRID	220 KV-BirparaPGCIL	✗	✗	✗
400 KV-Kolaghat TPS 400kv-400 KV-Kharagpur 400kv-1	16-02-2019 10:46:00	Transmission Line	400 KV-Kolaghat TPS 400kv-400 KV-Kharagpur 400kv-1	WBPDCL	400 KV-Kolaghat TPS 400kv	✗	✗	✗	WBSETCL	400 KV-Kharagpur 400kv	✗	✗	✗

400KV KhSTPP-BARH-II	15-02-2019 03:24:00	Transmission Line	400 KV-KAHALGAON 400kv-400 KV-BARH 400kv-2	NTPC	400 KV-KAHALGAON 400kv	✗	✗	✗	NTPC	400 KV-BARH 400kv	✗	✗	✗
400 KV-New_PPSP 400kv-400 KV-Arambag 400kv-1	14-02-2019 12:44:00	Transmission Line	400 KV-New_PPSP 400kv-400 KV-Arambag 400kv-1	WBSETCL	400 KV-New_PPSP 400kv	✗	✗	✗	WBSETCL	400 KV-Arambag 400kv	✗	✗	✗
400KV NEW PPSP-ARAMBAGH-I	14-02-2019 11:41:00	Transmission Line	400 KV-New_PPSP 400kv-400 KV-Arambag 400kv-1	WBSETCL	400 KV-New_PPSP 400kv	✗	✗	✗	WBSETCL	400 KV-Arambag 400kv	✗	✗	✗
Gl at Bakreswar II	11-02-2019 14:54:00	Transmission Line	400 KV-BAKRESWAR 400kv-400 KV-Arambag 400kv-2	WBPDCL	400 KV-BAKRESWAR 400kv	✓	✗	✗	WBSETCL	400 KV-Arambag 400kv	✗	✗	✗
	11-02-2019 14:54:00	Bus	400 KV-BAKRESWAR 400kv--2	WBPDCL	400 KV-BAKRESWAR 400kv	✓	✗	✗					
	11-02-2019 14:54:00	Transformer	bak2--2	WBPDCL	bak2	✗	✗	✗	WBSETCL		✗	✗	✗
Tripping of Baripada 132 kv bus	11-02-2019 10:33:00	Bus	132 KV-KUCHEI BARIPADA 400KV--1	POWERGRID	132 KV-KUCHEI BARIPADA 400KV	✓	✗	✗					
	11-02-2019 10:33:00	Transformer	220 KV-KUCHEI BARIPADA 400KV--1	POWERGRID	220 KV-KUCHEI BARIPADA 400KV	✓	✗	✗					
220 KV-Dalkhola 220kv-220 KV-DALKHOLA 220KV-1	09-02-2019 11:51:00	Transmission Line	220 KV-Dalkhola 220kv-220 KV-DALKHOLA 220KV-1	WBSETCL	220 KV-Dalkhola 220kv	✗	✗	✗	POWERGRID	220 KV-DALKHOLA 220KV	✗	✗	✗
220 KV-GAYA 765kv-220 KV-SONENAGAR 220KV-1	08-02-2019 23:08:00	Transmission Line	220 KV-GAYA 765kv-220 KV-SONENAGAR 220KV-2	POWERGRID	220 KV-GAYA 765kv	✗	✗	✗	BSPTCL	220 KV-SONENAGAR 220KV	✓	✗	✗
220 KV-CHUKHA-220 KV-BirparaPGCIL-2	08-02-2019 15:59:00	Transmission Line	220 KV-CHUKHA-220 KV-BirparaPGCIL-2	BHUTAN	220 KV-CHUKHA	✗	✗	✗	POWERGRID	220 KV-BirparaPGCIL	✗	✗	✗
220 KV-MUZAFFARPUR 400KV-220 KV-DHALKEBAR-1	08-02-2019 13:06:00	Transmission Line	220 KV-MUZAFFARPUR 400KV-220 KV-DHALKEBAR-1		220 KV-MUZAFFARPUR 400KV					220 KV-DHALKEBAR			
220 KV-MUZAFFARPUR 400KV-220 KV-MUZAFFARPUR TPS220KV-1	08-02-2019 12:24:00	Transmission Line	220 KV-MUZAFFARPUR 400KV-220 KV-MUZAFFARPUR TPS220KV-2	POWERGRID	220 KV-MUZAFFARPUR 400KV	✗	✗	✗	NTPC	220 KV-MUZAFFARPUR TPS220KV	✗	✗	✗
220 KV-BirparaPGCIL-220 KV-CHUKHA-2 TRIPPING	08-02-2019 10:11:00	Transmission Line	220 KV-BirparaPGCIL-220 KV-CHUKHA-2	POWERGRID	220 KV-BirparaPGCIL	✗	✗	✗	BHUTAN	220 KV-CHUKHA	✗	✗	✗
400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-Binaguri 400 Kv-1	08-02-2019 09:39:00	Transmission Line	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-Binaguri 400 Kv-1	POWERGRID	400 KV-ALIPURDUAR PGCIL 400/220kv	✗	✗	✗	POWERGRID	400 KV-Binaguri 400 Kv	✗	✗	✗
765 KV-GAYA 765KV-765 KV-BALIA-1	08-02-2019 07:31:00	Transmission Line	765 KV-GAYA 765KV-765 KV-BALIA-1	POWERGRID	765 KV-GAYA 765KV	✗	✗	✗	NORTHERN REGION	765 KV-BALIA	✗	✗	✗
220 KV-DARBHANGA NEW 220KV-220 KV-LAUKAHI 220/132/33KV-1	08-02-2019 02:39:00	Transmission Line	220 KV-DARBHANGA NEW 220KV-220 KV-LAUKAHI 220/132/33KV-1	BSPTCL	220 KV-DARBHANGA NEW 220KV	✗	✗	✗	BSPTCL	220 KV-LAUKAHI 220/132/33KV	✗	✗	✗
220KV FSTPP-LALMATIA-SC	07-02-2019 13:05:00	Transmission Line	220 KV-Farakka(400/220/15.75)-220 KV-Lalmatia(220/132/33KV)-1	NTPC	220 KV-Farakka(400/220/15.75)	✗	✗	✗	JUSNL	220 KV-Lalmatia(220/132/33kv)	✗	✗	✗
220KV RANCHI-HATIA-II	07-02-2019 12:03:00	Transmission Line	220 KV-Ranchi(400/220kv)-220 KV-HATIA 220/132KV-1	POWERGRID	220 KV-Ranchi(400/220kv)	✗	✗	✗	JUSNL	220 KV-HATIA 220/132KV	✗	✗	✗
400/220 kv ICT III at Gaya	06-02-2019 14:47:00	Transformer	400 KV-GAYA 765KV--3	POWERGRID	400 KV-GAYA 765KV	✗	✗	✗					
400 KV-MUZAFFARPUR 400KV-400 KV-GORAKHPUR-2 on 05-02-19	05-02-2019 05:38:00	Transmission Line	400 KV-MUZAFFARPUR 400KV-400 KV-GORAKHPUR-2	POWERGRID	400 KV-MUZAFFARPUR 400KV	✗	✗	✗	NORTHERN REGION	400 KV-GORAKHPUR	✗	✗	✗
400 KV-MERAMUNDALI 400KV-400 KV-MENDHASAL-1	04-02-2019 04:26:00	Transmission Line	400 KV-MERAMUNDALI 400KV-400 KV-NEW DUBURI 400KV-2		400 KV-MERAMUNDALI 400KV					400 KV-NEW DUBURI 400KV			
	04-02-2019 04:26:00	Transmission Line	400 KV-MERAMUNDALI 400KV-400 KV-MENDHASAL-1	OPTCL	400 KV-MERAMUNDALI 400KV	✗	✗	✗	OPTCL	400 KV-MENDHASAL	✗	✗	✗
GD at New Sagardighi	03-02-2019 18:44:00	Transmission Line	220 KV-SAGARDIGHI(SGTPP)-220 KV-NEW SAGARDIGHI-1	WBPDCL	220 KV-SAGARDIGHI(SGTPP)	✗	✗	✗	WBSETCL	220 KV-NEW SAGARDIGHI	✗	✗	✗
	03-02-2019 18:44:00	Transmission Line	220 KV-SAGARDIGHI(SGTPP)-220 KV-NEW SAGARDIGHI-2	WBPDCL	220 KV-SAGARDIGHI(SGTPP)	✗	✗	✗	WBSETCL	220 KV-NEW SAGARDIGHI	✗	✗	✗
	03-02-2019 18:44:00	Bus	220 KV-SAGARDIGHI(SGTPP)--2	WBPDCL	220 KV-SAGARDIGHI(SGTPP)	✗	✗	✗					
	03-02-2019 18:44:00	Transformer	220 KV-SAGARDIGHI(SGTPP)--1	WBPDCL	220 KV-SAGARDIGHI(SGTPP)	✗	✗	✗	WBSETCL		✗	✗	✗
220 KV-NEW DUBURI 400KV-220 KV-BALASORE 220KV-1	03-02-2019 14:15:00	Transmission Line	220 KV-NEW DUBURI 400KV-220 KV-BALASORE 220KV-1	OPTCL	220 KV-NEW DUBURI 400KV	✓	✗	✗	OPTCL	220 KV-BALASORE 220KV	✗	✗	✗
	03-02-2019 14:15:00	Bus	220 KV-NEW DUBURI 400KV--1	OPTCL	220 KV-NEW DUBURI 400KV	✓	✗	✗	OPTCL		✗	✗	✗
	03-02-2019 14:15:00	Transformer	400 KV-NEW DUBURI 400KV--2	OPTCL	400 KV-NEW DUBURI 400KV	✓	✗	✗	OPTCL		✗	✗	✗
220 KV-CHUKHA-220 KV-BirparaPGCIL-1	03-02-2019 09:32:00	Transmission Line	220 KV-CHUKHA-220 KV-BirparaPGCIL-2	BHUTAN	220 KV-CHUKHA	✗	✗	✗	POWERGRID	220 KV-BirparaPGCIL	✗	✗	✗
220 KV-BirparaPGCIL-220 KV-CHUKHA-1 Tripping incident.	01-02-2019 22:50:00	Transmission Line	220 KV-BirparaPGCIL-220 KV-CHUKHA-2	POWERGRID	220 KV-BirparaPGCIL	✗	✗	✗	BHUTAN	220 KV-CHUKHA	✗	✗	✗
400 KV-Binaguri 400 Kv-400 KV-BONGAIGAON-2	01-02-2019 14:24:00	Transmission Line	400 KV-Binaguri 400 Kv-400 KV-BONGAIGAON-2	POWERGRID	400 KV-Binaguri 400 Kv	✗	✗	✗	POWERGRID	400 KV-BONGAIGAON	✗	✗	✗