



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

Tel No.:033-24239651, 24239654 FAX No.:033-24221802, 24221358 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

**NO. ERPC/PROTECTION/2020/12749-792**

**DATE: 04.03.2020**

**FAX MESSAGE NO. - 60**

सेवा में / To,  
संलग्न सूची के अनुसार / As per list enclosed.

विषय : पू.क्षे.वि.स. की 89 वीं संरक्षण समन्वय उप-समिति (पीसीसी) की बैठक हेतु सूचना ।

**Sub: Notice for 89<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

यह सूचित किया जाता है कि पू.क्षे.वि.स. की 89 वीं पीसीसी बैठक 13 मार्च, 2020 (शुक्रवार) को पू.क्षे.वि.स., कोलकाता के सम्मेलन कक्ष, में प्रातः 11:00 बजे आयोजित की जाएगी ।

Notice is hereby given that 89<sup>th</sup> PCC meeting of ERPC will be held on 13<sup>th</sup> March, 2020 (Friday) at 11:00 hrs at ERPC Conference Room, Kolkata.

चर्चा के लिए अस्थायी कार्यसूची बिन्दुएं निम्नानुसार होंगे :

The tentative agenda items for discussion will be as follows:

- 1) पू.क्षे.वि.स. की 88वीं संरक्षण उप-समिति की बैठक के कार्यवृत्त की पुष्टि ।  
Confirmation of the minutes of 88<sup>th</sup> Protection sub-Committee Meeting of ERPC.
- 2) फरवरी, 2020 में हुए निम्न ग्रीड डिस्टर्बेसेस का विश्लेषण:  
Analysis of following grid disturbances of February, 2020:

SI No	GD/ GI	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)
1	GD-1	01-02-2020	21:05	WBSETCL	At 21:05 hrs, both 220kV buses at Bidhannagar S/S tripped on Bus differential protection due to failure of 220kV Bus Coupler CT resulting into tripping of all 220kV outgoing feeders connected at Bidhannagar, 2 x 315MVA 400/220kV ICTs at Bidhannagar, 3 x 160MVA 220/132kV ICTs at Bidhannagar and two running units (unit #7 & #8) of DPL due to loss of evacuation path. There is a load loss of approx. 300 MW around Bidhannagar, DPL embedded area and Ukhra.	300	350
2	GD-1	09-02-2020	12:53	BSPTCL	At 12:53 hrs, 220 KV Muzaffarpur-Hajipur D/C tripped due to bus bar protection operation at Hazipur leading to tripping of all feeders connected to 220 KV Hajipur S/S, causing load loss at Hajipur, Amnour, Siwan, Chhapra, Hathua, New Siwean(Raghunathpur) & Gopalganj (traction load loss of approx. 25MW at Hajipur, Siwan, Chhapra)	183	0

3	GD-1	10-02-2020	17:32	BSPTCL	At 17:32 hrs., 220 KV Hajipur-Amnour D/c tripped leading to load loss of 142 MW at Amnour, Siwan, Chhapra, Hathua, New Siwan(Raghunathpur) & Gopalganj (traction load loss of approx. 15 MW at Siwan, Chhapra).	142	0
4	GD-1	11-02-2020	08:33	WBSETCL	220 KV Kharagpur-Midnapur D/c was under planned shutdown. At 08:33 Hrs, LBB of 220 KV Kharagpur-Vidyasagar Park I operated due to closing of earth switch at Kharagpur end resulting into tripping of both 220 KV buses at Kharagpur and total power failure at Vidyasagar Park and Egra.	43	0
5	GI-2	17-02-2020	17:38	ISTS	On 17th Feb 2020, at 17:38 hrs. HVDC Talcher-Kolar Pole-2 tripped due to persistent DC line fault. Before tripping the flow on Bipole was 2000 MW and in post outage, flow on Pole-1 jumped to 1250 MW from 1000 MW. After 30 seconds, it came down to 1000 MW and after 75 seconds, flow through the link was 150 MW as per ground return scheme. Due to generation of SPS-3 signal, generation backdown of 666 MW occurred at Talcher. At same time, generation reduction occurred at GMR and JITPL also.	0	836
6	GI-2	20-02-2020	06:14	ISTS	Both the units at MPL was running with 525 MW generation. At 6:14:02 hrs. CW pump 1A, 1C and ACW Pump 1A Tripped followed by initiation of Vacuum Very low trip signal at 06:14:54 hrs. and subsequently tripping of turbine resulted tripping of unit #1 at MPL on Class – B protection. At 6:14:00 hrs. MFT of unit #2 occurred due to loss of all fuel as all 6.6KV and 415V bus section got tripped.	0	1050
7	GD-1	25-02-2020	08:14	ISTS	At 08:14 hrs. 220 kV Tashiding - New Melli S/C, 220 kV Tashiding - Rangpo S/C, 220 kV Rangpo - New Melli - S/C tripped resulting total power failure at New Melli and Tashiding S/S and tripping of unit #2 at Tashiding due to loss of evacuation path. At the time of the incident, heavy thunderstorm and inclement weather were reported.	0	48.5

- 3) फरवरी, 2020 की सिंगल लाइन ट्रिपिंग घटनाओं को अनुलग्नक- I में संलग्न किया गया है।  
Single line tripping incidences of February, 2020 is enclosed at **Annexure-I**.

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 डेटाबेस 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 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](http://www.erpc-protectiondb.in).

बैठक में आपकी उपस्थिति महत्वपूर्ण है। कृपया अपने सदस्यों के नाम एवं पदनाम सहित बैठक में अपनी भागीदारी की पुष्टि करें।

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

भवदीय / Yours faithfully,

Sd/-

(जे.जी.राव/ J.G.Rao)

(अधीशाषी अभियंता / 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 Seikh 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 <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, 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 <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 (O&M), POWERGRID, Odisha Projects, Sahid Nagar, Bhubaneswar – 751 007
General Manager (OS), ERHQ-I, NTPC Ltd.,	Manager (Electrical), Adhunik Power & Natural

Loknayak Jaiprakash Bhawan, (2 <sup>nd</sup> Floor), Dak Bunglow Chawk, Patna-800001	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 <sup>st</sup> Floor, Module C/2, Fortune Tower, C S Pur, Bhubaneswar- 751023
Managing Director, Bhutan Power Corporation Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corprn. 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		
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**Annexure-I**

S. No.	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)
1	400KV-MERAMUNDALI-MENDHASAL-II	28-02-2020 14:01:00	T/L	400 KV-MERAMUNDALI 400KV-400 KV-MENDHASAL-2	OPTCL	400 KV-MERAMUNDALI 400KV	Yes	Yes	No	OPTCL	400 KV-MENDHASAL	No	No	No
2	400KV-JHARSUGUDA(GIS)-OPGC-2	28-02-2020 12:56:00	T/L	400 KV-JHARSUGUDA 765 KV-400 KV-OPGC-2	POWER GRID	400 KV-JHARSUGUDA 765 KV	No	No	No	OPGC	400 KV-OPGC	No	No	No
3	400KV-MERAMUNDALI-LAPANGA-2	27-02-2020 14:56:00	T/L	400 KV-MERAMUNDALI 400KV-400 KV-LAPANGA-2	OPTCL	400 KV-MERAMUNDALI 400KV	Yes	No	No	OPTCL	400 KV-LAPANGA	No	No	No
4	400KV-MERAMUNDALI-LAPANGA-3	26-02-2020 14:56:00	T/L	400 KV-MERAMUNDALI 400KV-400 KV-LAPANGA-2	OPTCL	400 KV-MERAMUNDALI 400KV	No	No	No	OPTCL	400 KV-LAPANGA	No	No	No
5	400KV-BARH-GORAKHPUR-1	26-02-2020 12:30:00	T/L	400 KV-BARH 400kv-400 KV-GORAKHPUR-1	NTPC	400 KV-BARH 400kv	No	No	No	NORTHERN REGION	400 KV-GORAKHPUR	No	No	No
6	400KV-BARH-PATNA-4	26-02-2020 12:30:00	T/L	400 KV-BARH 400kv-400 KV-PATNA 400KV-4	NTPC	400 KV-BARH 400kv	No	No	No	POWERGRID	400 KV-PATNA 400KV	No	Yes	No
7	400KV-MERAMUNDALI-MENDHASAL-1	26-02-2020 11:47:00	T/L	400 KV-MERAMUNDALI 400KV-400 KV-MENDHASAL-1	OPTCL	400 KV-MERAMUNDALI 400KV	Yes	No	No	OPTCL	400 KV-MENDHASAL	No	No	No

8	400KV-DURGAPUR-SAGARDIGHI-2	26-02-2020 09:59:00	T/L	400 KV-DURGAPUR PGCIL 400/220kv- 400 KV- SAGARDIGHI(SGTP P)-2	POWER GRID	400 KV- DURGAPUR PGCIL 400/220kv	No	No	No	WBPDCL	400 KV- SAGARDIGHI( SGTPP)	No	No	No
9	400KV-DURGAPUR-JAMSHEDPUR-1	26-02-2020 09:58:00	T/L	400 KV-DURGAPUR PGCIL 400/220kv- 400 KV- JAMSHEDPUR 400/220KV-1	POWER GRID	400 KV- DURGAPUR PGCIL 400/220kv	No	No	No	POWERG RID	400 KV- JAMSHEDPUR 400/220KV	No	Yes	No
10	400KV-MAITHON-MAITHON RB-2	26-02-2020 09:58:00	T/L	400 KV- Maithon(400/220k V)-400 KV- MPLG(400/21kv)-2	POWER GRID	400 KV- Maithon(400/22 0kv)	No	No	No	MPL	400 KV- MPLG(400/21 kv)	Yes	Yes	Yes
11	400KV-PATNA-KISHANGANJ-2	25-02-2020 17:57:00	T/L	400 KV-PATNA 400KV-400 KV- KISHANGANJ 400KV-2	POWER GRID	400 KV-PATNA 400KV	No	Yes	No	POWERG RID	400 KV- KISHANGANJ 400KV	No	Yes	No
12	400KV-ALIPURDUAR (PG)-BINAGURI-3	25-02-2020 17:04:00	T/L	400 KV- ALIPURDUAR PGCIL 400/220kv-400 KV- Binaguri 400 Kv-3	POWER GRID	400 KV- ALIPURDUAR PGCIL 400/220kv	No	No	No	POWERG RID	400 KV- Binaguri 400 Kv	No	No	No
13	400KV-PATNA-KISHANGANJ-2	25-02-2020 14:43:00	T/L	400 KV-PATNA 400KV-400 KV- KISHANGANJ 400KV-2	POWER GRID	400 KV-PATNA 400KV	No	Yes	No	POWERG RID	400 KV- KISHANGANJ 400KV	No	Yes	No

14	400KV-JHARSUGUDA-RAIGARH-2	25-02-2020 12:37:00	T/L	400 KV- JHARSUGUDA 765 KV-400 KV- RAIGARH_PGCIL-2	POWER GRID	400 KV- JHARSUGUDA 765 KV	No	No	No	WESTER N REGION	400 KV- RAIGARH_PG CIL	No	No	No
15	220KV-DEHRI -GAYA-2	25-02-2020 09:55:00	T/L	220 KV-DEHRI 220KV-220 KV- GAYA 765KV-2	BSPTCL	220 KV-DEHRI 220KV	Yes	Yes	Yes	POWERG RID	220 KV-GAYA 765KV	No	Yes	No
16	400KV-GAYA-KODERMA-2	25-02-2020 09:19:00	T/L	400 KV-GAYA 765KV-400 KV- Koderma_G(400/2 20/21kV)-2	POWER GRID	400 KV-GAYA 765KV	No	Yes	No	DVC	400 KV- Koderma_G(4 00/220/21kV)	No	No	No
17	220 KV-RANGPO- New Melli and Tashiding	25-02-2020 08:14:00	T/L	220 KV-RANGPO 400KV-220 KV- NEW MELLI 220KV- 1	POWER GRID	220 KV-RANGPO 400KV	No	No	No	POWERG RID	220 KV-NEW MELLI 220KV	No	No	No
18	400KV-BARH- GORAKHPUR-D/C	25-02-2020 07:41:00	T/L	400 KV-BARH 400kv-400 KV- GORAKHPUR-1	NTPC	400 KV-BARH 400kv	No	No	No	NORTHE RN REGION	400 KV- GORAKHPUR	No	No	No
19	400KV-GORAKHPUR- BARH-1	24-02-2020 11:30:00	T/L	400 KV- GORAKHPUR-400 KV-BARH 400kv-1	NORTHE RN REGION	400 KV- GORAKHPUR	No	No	No	NTPC	400 KV-BARH 400kv	No	No	No
20	220KV-NEW PURNEA- MADHEPURA-2	24-02-2020 04:35:00	T/L	220 KV-NEW PURNEA 400KV- 220 KV- MADHEPURA 220KV-2	POWER GRID	220 KV-NEW PURNEA 400KV	No	Yes	No	BSPTCL	220 KV- MADHEPURA 220KV	No	No	No
21	400KV-PATNA- KISHANGANJ-2	24-02-2020 01:35:00	T/L	400 KV-PATNA 400KV-400 KV- KISHANGANJ 400KV-2	POWER GRID	400 KV-PATNA 400KV	No	No	No	POWERG RID	400 KV- KISHANGANJ 400KV	No	No	No

22	400KV-BARH-GORAKHPUR-DC	24-02-2020 00:52:00	T/L	400 KV-BARH 400kv-400 KV- GORAKHPUR-1	NTPC	400 KV-BARH 400kv	No	No	No	NORTHERN REGION	400 KV- GORAKHPUR	No	No	No
23	220KV-RENGALI(PH)- TSTPP-1	22-02-2020 10:26:00	T/L	220 KV-Rengali Hydro Power House(HPS) 11/220- 220 KV-Talcher super thermal power 21/400-1	OHPC	220 KV-Rengali Hydro Power House(HPS) 11/220	No	No	No	NTPC	220 KV- Talcher super thermal power 21/400	Yes	No	Yes
24	400KV-PATNA- KISHANGANJ-DC	22-02-2020 05:07:00	T/L	400 KV-PATNA 400KV-400 KV- KISHANGANJ 400KV-1	POWER GRID	400 KV-PATNA 400KV	No	No	No	POWERGR ID	400 KV- KISHANGANJ 400KV	No	No	No
25	220KV-RENGALI(PH)- TSTPP-1	21-02-2020 12:32:00	T/L	220 KV-Rengali Hydro Power House(HPS) 11/220- 220 KV-Talcher super thermal power 21/400-1	OHPC	220 KV-Rengali Hydro Power House(HPS) 11/220	No	No	No	NTPC	220 KV- Talcher super thermal power 21/400	Yes	No	Yes
26	220KV- MUZAFFARPUR Disturbance at 12:29 hrs	20-02-2020 12:29:00	T/L	220 KV- MUZAFFARPUR 400KV-220 KV- DHALKEBAR-1	POWER GRID	220 KV- MUZAFFARPUR 400KV	No	No	No	NEPAL	220 KV- DHALKEBAR	No	No	No
27	220KV- MUZAFFARPUR Disturbance at 12:29 hrs	20-02-2020 12:29:00	T/L	220 KV- MUZAFFARPUR 400KV-220 KV- DHALKEBAR-2	POWER GRID	220 KV- MUZAFFARPUR 400KV	No	No	No	NEPAL	220 KV- DHALKEBAR	No	No	No



28	220KV-MUZAFFARPUR Disturbance at 12:29 hrs	20-02-2020 12:29:00	T/L	220 KV-MUZAFFARPUR 400KV-220 KV-HAZIPUR NEW 220KV-1	POWER GRID	220 KV-MUZAFFARPUR 400KV	No	No	No	BSPTCL	220 KV-HAZIPUR NEW 220KV	No	No	No
29	220KV-MUZAFFARPUR Disturbance at 12:29 hrs	20-02-2020 12:29:00	T/L	220 KV-MUZAFFARPUR 400KV-220 KV-MUZAFFARPUR TPS220KV-1	POWER GRID	220 KV-MUZAFFARPUR 400KV	No	No	No	NTPC	220 KV-MUZAFFARPUR TPS220KV	No	No	No
30	220KV-MUZAFFARPUR Disturbance at 12:29 hrs	20-02-2020 12:29:00	Bus	220 KV-MUZAFFARPUR 400KV--1	POWER GRID	220 KV-MUZAFFARPUR 400KV	No	No	No					
31	400KV-PATNA-BALIA-2	19-02-2020 22:09:00	T/L	400 KV-PATNA 400KV-400 KV-BALIA-1	POWER GRID	400 KV-PATNA 400KV	No	No	No	NORTHERN REGION	400 KV-BALIA	No	No	No
32	220KV-NEW MELLI-JORETHANG-1	19-02-2020 15:57:00	T/L	220 KV-NEW MELLI 220KV-220 KV-DANS POWER 220KV-1	POWER GRID	220 KV-NEW MELLI 220KV	No	No	No	OTHERS	220 KV-DANS POWER 220KV	No	No	No
33	220KV-NEW MELLI-TASHIDING-1	19-02-2020 15:57:00	T/L	220 KV-NEW MELLI 220KV-220 KV-TASHIDING HEP 11/220KV GS-1	POWER GRID	220 KV-NEW MELLI 220KV	No	No	No	DANS POWER	220 KV-TASHIDING HEP 11/220KV GS	No	No	No
34	400KV-MERAMUNDALI-LAPANGA-2	17-02-2020 21:02:00	T/L	400 KV-MERAMUNDALI 400KV-400 KV-LAPANGA-2	OPTCL	400 KV-MERAMUNDALI 400KV	Yes	Yes	Yes	OPTCL	400 KV-LAPANGA	Yes	Yes	Yes

35	220KV-DARBHANGA (DMTCL)-MOTIPUR-1	16-02-2020 17:52:00	T/L	220 KV-DMTCL DARBHANGA 400kv-220 KV-MOTIPUR 220 KV-1	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV-MOTIPUR 220 KV	Yes	No	No
36	400KV-BINAGURI-NEW PURNEA-2	16-02-2020 04:15:00	T/L	400 KV-Binaguri 400 Kv-400 KV-NEW PURNEA 400KV-2	POWER GRID	400 KV-Binaguri 400 Kv	No	No	No	POWERGRID	400 KV-NEW PURNEA 400KV	No	Yes	No
37	400KV-BINAGURI-NEW PURNEA-1	16-02-2020 04:11:00	T/L	400 KV-Binaguri 400 Kv-400 KV-NEW PURNEA 400KV-1	POWER GRID	400 KV-Binaguri 400 Kv	No	No	No	POWERGRID	400 KV-NEW PURNEA 400KV	No	Yes	No
38	400KV-JEERAT-BAKRESWAR-1	14-02-2020 19:23:00	T/L	400 KV-JEERAT 400kv-400 KV-BAKRESWAR 400KV-1	WBSETC	400 KV-JEERAT 400kv	No	No	No	WBPDCL	400 KV-BAKRESWAR 400kv	No	No	No
39		14-02-2020 18:13:00	T/L	400 KV-JEERAT 400kv-400 KV-BAKRESWAR 400kv-1	WBSETC	400 KV-JEERAT 400kv	No	Yes	No	WBPDCL	400 KV-BAKRESWAR 400kv	No	No	No
40	220KV-TENUGHAT-BIHARSARIFF-1	14-02-2020 11:10:00	T/L	220 KV-TVNL_Tenughat(15.7/220kv)-220 KV-BIHARSHARIFF 220KV-1	TVNL	220 KV-TVNL_Tenughat(15.7/220kv)	No	No	No	BSPTCL	220 KV-BIHARSHARIFF 220KV	No	No	No
41	220KV-MUZAFFARPUR-HAZIPUR-DC	09-02-2020 12:57:00	T/L	220 KV-MUZAFFARPUR 400KV-220 KV-HAZIPUR NEW 220KV-2	POWER GRID	220 KV-MUZAFFARPUR 400KV	No	No	No	BSPTCL	220 KV-HAZIPUR NEW 220KV	No	No	No

42	220KV-MUZAFFARPUR-HAJIPUR-DC	09-02-2020 12:57:00	T/L	220 KV-MUZAFFARPUR 400KVpur-220 KV-HAZIPUR NEW 220KV-1	POWER GRID	220 KV-MUZAFFARPUR 400KVpur	No	No	No	BSPTCL	220 KV-HAZIPUR NEW 220KV	No	No	No
43	Raghunathpur event at 01:55 hrs	08-02-2020 01:55:00	T/L	400 KV-Raghunathpur TPS 20/400/220/33kv- 400 KV-Ranchi_N(765/400 kv)-1	DVC	400 KV-Raghunathpur TPS 20/400/220/33k V	No	No	No	POWERG RID	400 KV-Ranchi_N(765 /400kv)	No	No	No
44	400KV-NEW DUBURI-PANDIABILI-1	07-02-2020 06:49:00	T/L	400 KV-NEW DUBURI 400KV-400 KV-PANDIABIL 400KV(PGCIL)-1	OPTCL	400 KV-NEW DUBURI 400KV	No	No	No	POWERG RID	400 KV-PANDIABIL 400KV(PGCIL)	No	No	No
45	220KV-BUDHIPADAR-KORBA-3	07-02-2020 02:56:00	T/L	220 KV-BUDHIPADAR220K V-220 KV-KORBA EAST_CSPGCL-3	OPTCL	220 KV-BUDHIPADAR220 KV	No	No	No	WESTER N REGION	220 KV-KORBA EAST_CSPGCL	No	No	No
46	400KV-NEW DUBURI-PANDIABILI-1	07-02-2020 01:51:00	T/L	400 KV-NEW DUBURI 400KV-400 KV-PANDIABIL 400KV(PGCIL)-1	OPTCL	400 KV-NEW DUBURI 400KV	No	No	No	POWERG RID	400 KV-PANDIABIL 400KV(PGCIL)	No	No	No
47	220KV-DARBHANGA (DMTCL)- DARBHANGA-1	06-02-2020 14:07:00	T/L	220 KV-DMTCL DARBHANGA 400kv-220 KV-DARBHANGA NEW 220KV-1	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV-DARBHANGA NEW 220KV	No	No	No

48	400KV-BINAGURI-KISHANGANJ-1	05-02-2020 15:11:00	T/L	400 KV-Binaguri 400 Kv-400 KV-KISHANGANJ 400KV-1	POWER GRID	400 KV-Binaguri 400 Kv	No	No	No	POWER GRID	400 KV-KISHANGANJ 400KV	No	Yes	No
49	220KV-CHUKHA-BIRPARA-1	04-02-2020 14:35:00	T/L	220 KV-CHUKHA- 220 KV-BirparaPGCIL-1	BHUTAN	220 KV-CHUKHA	No	No	No	POWER GRID	220 KV-BirparaPGCIL	No	No	No
50	220KV-CHUKHA-BIRPARA-2	03-02-2020 19:58:00	T/L	220 KV-CHUKHA- 220 KV-BirparaPGCIL-1	BHUTAN	220 KV-CHUKHA	No	No	No	POWER GRID	220 KV-BirparaPGCIL	No	No	No
51	220 KV-BIDHANNAGAR Disturbance	01-02-2020 21:05:00	T/L	220 KV-BIDHANGAR 220/132KV-220 KV-Waria (DTPS) 220/132/33/25kv-2	WBSETC L	220 KV-BIDHANGAR 220/132KV	No	No	No	DVC	220 KV-Waria (DTPS) 220/132/33/25kv	No	No	No
52	221 KV-BIDHANNAGAR Disturbance	01-02-2020 21:05:00	T/L	220 KV-BIDHANNAGAR/DURGAPR 400KV-220 KV-Waria (DTPS) 220/132/33/25kv-1	WBSETC L	220 KV-BIDHANNAGAR/DURGAPR 400KV	No	No	No	DVC	220 KV-Waria (DTPS) 220/132/33/25kv	No	No	No
53	222 KV-BIDHANNAGAR Disturbance	01-02-2020 21:05:00	Bus	220 KV-BIDHANNAGAR/DURGAPR 400KV--1	WBSETC L	220 KV-BIDHANNAGAR/DURGAPR 400KV	Yes	Yes	No					
54	223 KV-BIDHANNAGAR Disturbance	01-02-2020 21:05:00	Bus	220 KV-BIDHANNAGAR/DURGAPR 400KV--2	WBSETC L	220 KV-BIDHANNAGAR/DURGAPR 400KV	No	No	No					