



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/2019/9308-9341

DATE: 06.12.2019

FAX MESSAGE NO. - 783

To,

As per list enclosed.

Sub: Notice for 86th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that **86th PCC meeting** of ERPC will be held on **18th December 2019 (Wednesday)** 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 85th 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 November, 2019:

Sr. No	GD/GI	Date	Time	S/S involved	Summary	Load loss (MW)	Gen loss (MW)
1	GD-I	04-11-2019	14:18	Jorethang	220 kV Jorethang - New Melli - I was under shutdown. At 14:18 hrs successful A/R occurred for 400 kV Kishangunj - Rangpo S/C on B-N fault (fault distance was 175.5 km from Kishangunj). At same time 220 kV Rangpo - New Melli S/C and 220 kV Jorethang - New Melli - II tripped resulting generation loss of 38 MW at Jorethang due to loss of evacuation path.	0	38
2	GD-I	05-11-2019	06:52	Arambagh	At Arambagh substation isolator got stuck while changing the isolator position and this leads to bus fault at 400 kV Bus. All the lines tripped either from remote end on Zone-2/3 or in Zone 4 from Arambagh end. Also ICT 4 tripped from 220 kV side on directional over current.	104	0

3	GI-II	05-11-2019	10:55	Talcher	HVDC Talcher Kolar pole I has been blocked at 10:55 Hrs on dtd 05.11.2019 due to "ESOF" from Kolar side resulting Pole 2 in metallic return mode. SPS operated at JITPL & GMR, subsequently generation reduce by 70MW & 150MW respectively. Power flow through HVDC Talcher Kolar reduced from 2000 MW to 1000 MW.	0	220
4	GD-I	11-11-2019	10:58	Jorethang	At 10:58 hrs successful A/R occurred for 400 kV Kishangunj - Rangpo S/C on Y-N fault. At same time 220 kV Jorethang - New Melli D/C tripped only form Jorethang end resulting tripping of JLHEP unit I due to loss of evacuation path	0	43
5	GD-I	25-11-2019	15:38	Teesta III	During synchronization of unit 5 of Teesta III, breaker got stuck and bus I at Teesta III tripped resulting tripping of 400kV Teesta-III-Dikchu S/C. At same time 400kV Teesta-III-Kishangunj S/C also tripped resulting tripping of both the evacuating lines from Teesta III and leading to generation loss of 303 MW at Teesta III.	0	303
6	GI-II	26-11-2019	05:56	Koderma	At 05:56 Hrs, R phase shunt capacitor of GCB burst while synchronizing U#2 at Koderma, which is connected through Bus#1. Subsequently, all elements connected to bus I tripped and bus I became dead.	0	0
7	GD-I	27-11-2019	02:45	Liluah	At 02:36 Hrs, 132 KV BUS PT at Liluah S/s got burst resulting tripping of 132 KV Liluah-Howrah Q/C. At the time, CESC system was synchronized to rest of the grid at Howrah point (132 KV Southern-Howrah, 132 KV Southern-Botanical-Howrah D/c) which got islanded as synchronization relay at Southern operated to disconnect CESC system from rest of the grid. CESC started running in island mode for 9 minutes. At 02:45 Hrs, when re-synchronization attempt was taken at Howrah, 2 running Units (U#1, U#3-264 MW generation) at Budge Budge tripped, thereby around 260 MW load loss occurred in CESC area.	260	264
8	GD-I	27-11-2019	15:30	Sonenagar	At 15:30 Hrs, 220 KV Gaya Sonenagar D/C tripped at Sonenagar end only due to DT receipt. No tripping was reported at gaya end. Load loss was at Aurangabad, Sonenagar and Japla	53	0

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,



(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 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

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)
220KV-BUDHIPADAR-RAIGARH-1	30-11-2019 15:44:00	Transmission Line	220 KV-BUDHIPADAR220KV-220 KV-RAIGARH_PGCIL-1	OPTCL	220 KV-BUDHIPADAR220KV	No	No	No	WESTERN REGION	220 KV-RAIGARH_PGCIL	No	No	No
400KV-ARAMBAGH-BAKRESWAR-1	29-11-2019 17:22:00	Transmission Line	400 KV-Arambag 400kv-400 KV-BAKRESWAR 400kv-1	WBSETCL	400 KV-Arambag 400kv	Yes	Yes	No	WBPDCL	400 KV-BAKRESWAR 400kv	No	No	No
400KV-PARULIA-ARAMBAGH-2	29-11-2019 17:22:00	Transmission Line	400 KV-DURGAPUR PGCIL 400/220kv-400 KV-Arambag 400kv-2	POWER GRID	400 KV-DURGAPUR PGCIL 400/220kv	No	No	No	WBSETCL	400 KV-Arambag 400kv	Yes	Yes	No
220KV-RANCHI-HATIA-1	29-11-2019 15:40:00	Transmission Line	220 KV-Ranchi(400/220kv)-220 KV-HATIA 220/132KV-1	POWER GRID	220 KV-Ranchi(400/220 kv)	No	No	No	JUSNL	220 KV-HATIA 220/132KV	No	No	No
400KV-MERAMUNDALI-LAPANGA-2	29-11-2019 11:23:00	Transmission Line	400 KV-MERAMUNDALI 400KV-400 KV-LAPANGA-2	OPTCL	400 KV-MERAMUNDALI 400KV	Yes	Yes	No	OPTCL	400 KV-LAPANGA	Yes	Yes	Yes
400KV-ARAMBAGH-NEW CHANDITALA-1	28-11-2019 22:01:00	Transmission Line	400 KV-Arambag 400kv-400 KV-New Chanditola 400 kv-1	WBSETCL	400 KV-Arambag 400kv	Yes	No	No	WBSETCL	400 KV-New Chanditola 400 kv	Yes	Yes	No
400KV-ALIPURDUAR (PG)-JIGMELLING-1	28-11-2019 12:41:00	Transmission Line	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-JIGMELLING-1	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	BHUTAN	400 KV-JIGMELLING	No	No	No

	28-11-2019 09:52:00	Transmission Line	400 KV-ALIPURDUAR PGCIL 400/220kV-400 KV-JIGMELLING-1	POWER GRID	400 KV- ALIPURDUAR PGCIL 400/220kV	No	No	No	BHUTAN	400 KV- JIGMELLING	No	No	No
220KV-GAYA- SONENAGAR-D/C	27-11-2019 15:30:00	Transmission Line	220 KV-GAYA 765KV- 220 KV-SONENAGAR 220KV-1	POWER GRID	220 KV-GAYA 765KV	No	No	No	BSPTCL	220 KV- SONENAGAR 220KV	Yes	Yes	Yes
	27-11-2019 15:30:00	Transmission Line	220 KV-GAYA 765KV- 220 KV-SONENAGAR 220KV-2	POWER GRID	220 KV-GAYA 765KV	No	No	No	BSPTCL	220 KV- SONENAGAR 220KV	Yes	Yes	Yes
400KV-ARAMBAGH- NEW CHANDITALA- 1	27-11-2019 02:50:00	Transmission Line	400 KV-Arambag 400kV-400 KV-New Chanditola 400 kV-1	WBSETC L	400 KV- Arambag 400kV	Yes	No	No	WBSETCL	400 KV-New Chanditola 400 kV	Yes	Yes	No
220KV-GAYA- SONENAGAR-1	26-11-2019 21:28:00	Transmission Line	220 KV-GAYA 765KV- 220 KV-SONENAGAR 220KV-1	POWER GRID	220 KV-GAYA 765KV	No	No	No	BSPTCL	220 KV- SONENAGAR 220KV	Yes	Yes	Yes
KODERMA Disturbance at 05:56 Hrs	26-11-2019 05:56:00	Transmission Line	400 KV-GAYA 765KV- 400 KV- Koderma_G(400/220/ 21kV)-1	POWER GRID	400 KV-GAYA 765KV	No	No	No	DVC	400 KV- Koderma_G(400 /220/21kV)	No	No	No
	26-11-2019 05:56:00	Transmission Line	400 KV- Koderma_G(400/220/ 21kV)-400 KV- BIHARSHARIFF 400KV- 1	DVC	400 KV- Koderma_G(400 /220/21kV)	No	No	No	POWERGR ID	400 KV- BIHARSHARIFF 400KV	No	No	No

	26-11-2019 05:56:00	Transmission Line	400 KV-Koderma_G(400/220/21kv)-400 KV-BTPSA_D(400/220/33/21kv)-1	POWER GRID	400 KV-Koderma_G(400/220/21kv)	No	No	No	DVC	400 KV-BTPSA_D(400/220/33/21kv)	No	No	No
400KV-KISHANGANJ-TEESTA-III-1	25-11-2019 15:38:00	Transmission Line	400 KV-KISHANGANJ 400KV-400 KV-Teesta III-1	POWER GRID	400 KV-KISHANGANJ 400KV	No	No	No	TUL	400 KV-Teesta III	Yes	Yes	Yes
400KV-TEESTA-III-DIKCHU-1	25-11-2019 15:38:00	Transmission Line	400 KV-Teesta III-400 KV-DIKCHU-1	TUL	400 KV-Teesta III	No	No	No	GREENKO	400 KV-DIKCHU	No	No	No
400KV-BINAGURI-TALA-2	23-11-2019 17:26:00	Transmission Line	400 KV-Binaguri 400 Kvla-400 KV-TALA-2		400 KV-Binaguri 400 Kvla				BHUTAN	400 KV-TALA	No	No	No
220KV-DEHRI-GAYA-1	22-11-2019 12:43:00	Transmission Line	220 KV-DEHRI 220KV-220 KV-GAYA 765KV-1	BSPTCL	220 KV-DEHRI 220KV	Yes	Yes	Yes	POWERGRID	220 KV-GAYA 765KV	No	No	No
220KV-CHANDIL-STPS(WBSEB)-1	21-11-2019 12:35:00	Transmission Line	220 KV-Chandil(220/132kv)-220 KV-Santaldih TPS 220kv-1	JUSNL	220 KV-Chandil(220/132kv)	No	No	No	WBPDC	220 KV-Santaldih TPS 220kv	No	No	No
400KV-ALIPURDUAR (PG)-BONGAIGAON-2	20-11-2019 16:58:00	Transmission Line	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-BONGAIGAON-2	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	NORTH_EAST REGION	400 KV-BONGAIGAON	No	No	No
400KV-BINAGURI-BONGAIGAON-2	20-11-2019 16:58:00	Transmission Line	400 KV-Binaguri 400 Kv-400 KV-BONGAIGAON-2	POWER GRID	400 KV-Binaguri 400 Kv	No	No	No	NORTH_EAST REGION	400 KV-BONGAIGAON	No	No	No

400 KV-GAYA 765KV-400 KV- Koderma_G(400/220/21kV)-1	20-11-2019 11:56:00	Transmission Line	400 KV-GAYA 765KV- 400 KV- Koderma_G(400/220/21kV)-2	POWER GRID	400 KV-GAYA 765KV	No	Yes	No	DVC	400 KV- Koderma_G(400/220/21kV)	No	No	No
400 KV- Koderma_G(400/220/21kV)-400 KV- BIHARSHARIFF 400KV-1	20-11-2019 11:56:00	Transmission Line	400 KV- Koderma_G(400/220/21kV)-400 KV- BIHARSHARIFF 400KV-2	DVC	400 KV- Koderma_G(400/220/21kV)	No	No	No	POWERGRID	400 KV- BIHARSHARIFF 400KV	No	No	No
400 KV- JAMSHEDPUR 400/220KV-400 KV- Durgapur steel TPS 21/400kv-1	19-11-2019 17:53:00	Transmission Line	400 KV-JAMSHEDPUR 400/220KV-400 KV- Durgapur steel TPS 21/400kv-2	POWER GRID	400 KV- JAMSHEDPUR 400/220KV	No	No	No	DVC	400 KV-Durgapur steel TPS 21/400kv	No	No	No
400 KV- Koderma_G(400/220/21kV)-400 KV- BTPSA_D(400/220/33/21kV)-1	19-11-2019 01:27:00	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)	No	No	No	DVC	400 KV- BTPSA_D(400/220/33/21kV)	No	No	No
220 KV- MUZAFFARPUR 400KV-220 KV- DHALKEBAR-1	16-11-2019 16:42:00	Transmission Line	220 KV- MUZAFFARPUR 400KV- 220 KV-DHALKEBAR-2	POWER GRID	220 KV- MUZAFFARPUR 400KV	No	No	No	NEPAL	220 KV- DHALKEBAR	No	No	No
220 KV- MADHEPURA 220KV-220 KV-NEW PURNEA 400KV-1	16-11-2019 11:23:00	Transmission Line	220 KV-MADHEPURA 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV- MADHEPURA 220KV	Yes	Yes	No	POWERGRID	220 KV-NEW PURNEA 400KV	No	Yes	No

400 KV-BARIPADA KUCHEI 400KV-400 KV-Kharagpur 400kv-1	15-11- 2019 11:20:00	Transmission Line	400 KV-BARIPADA KUCHEI 400KV-400 KV- Kharagpur 400kv-1	POWER GRID	400 KV- BARIPADA KUCHEI 400KV	No	No	No	WBSETCL	400 KV- Kharagpur 400kv	Yes	Yes	No
220 KV-SASARAM 765KV-220 KV- NADOKHAR-1	14-11- 2019 17:02:00	Transmission Line	220 KV-SASARAM 765KV-220 KV- NADOKHAR-1	POWER GRID	220 KV- SASARAM 765KV	No	No	No	BSPTCL	220 KV- NADOKHAR	No	No	No
400KV- KISHANGANJ- RANGPO-1	13-11- 2019 13:43:00	Transmission Line	400 KV-KISHANGANJ 400KV-400 KV- RANGPO 400KV-1	POWER GRID	400 KV- KISHANGANJ 400KV	No	No	No	POWERGR ID	400 KV-RANGPO 400KV	No	No	No
400 KV- KISHANGANJ 400KV-400 KV- RANGPO 400KV-1	13-11- 2019 12:43:00	Transmission Line	400 KV-KISHANGANJ 400KV-400 KV- RANGPO 400KV-1	POWER GRID	400 KV- KISHANGANJ 400KV	No	Yes	No	POWERGR ID	400 KV-RANGPO 400KV	No	No	No
400 KV-New_PPSP 400kv-400 KV- Arambag 400kv-2	12-11- 2019 02:03:00	Transmission Line	400 KV-New_PPSP 400kv-400 KV- Arambag 400kv-2	WBSETC L	400 KV- New_PPSP 400kv	No	No	No	WBSETCL	400 KV-Arambag 400kv	No	No	No
220 KV- Farakka(400/220/1 5.75)-220 KV- Lalmatia(220/132/ 33kv)-1	11-11- 2019 11:30:00	Transmission Line	220 KV- Farakka(400/220/15.7 5)-220 KV- Lalmatia(220/132/33k V)-1	NTPC	220 KV- Farakka(400/22 0/15.75)	No	No	No	JUSNL	220 KV- Lalmatia(220/13 2/33kv)	No	No	No
400KV-ARAMBAGH- NEW CHANDITALA- 1	10-11- 2019 01:26:00	Transmission Line	400 KV-Arambag 400kv-400 KV-New Chanditola 400 kv-1	WBSETC L	400 KV- Arambag 400kv	Yes	No	No	WBSETCL	400 KV-New Chanditola 400 kv	Yes	Yes	No

400 KV-GAYA 765KV-400 KV- Chandwa JHK POOL(400kv)-1	09-11- 2019 12:55:00	Transmission Line	400 KV-GAYA 765KV- 400 KV-Chandwa JHK POOL(400kv)-1	POWER GRID	400 KV-GAYA 765KV	No	Yes	No	POWERGR ID	400 KV-Chandwa JHK POOL(400kv)	No	Yes	No
220 KV-NEW PURNEA 400KV- 220 KV- MADHEPURA 220KV-1	07-11- 2019 12:16:00	Transmission Line	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
400 KV-New_PPSP 400kv-400 KV- Ranchi_N(765/400k V)-1	07-11- 2019 09:10:00	Transmission Line	400 KV-New_PPSP 400kv-400 KV- Ranchi_N(765/400kv)- 2	WBSETC L	400 KV- New_PPSP 400kv	No	No	No	POWERGR ID	400 KV- Ranchi_N(765/4 00kv)	No	Yes	No
400KV-NEW PPSP- NEW RANCHI-2	06-11- 2019 09:02:00	Transmission Line	400 KV-New_PPSP 400kv-400 KV- Ranchi_N(765/400kv)- 2	WBSETC L	400 KV- New_PPSP 400kv	No	No	No	POWERGR ID	400 KV- Ranchi_N(765/4 00kv)	No	Yes	No
220KV-BINAGURI- BIRPARA-1	05-11- 2019 10:50:00	Transmission Line	220 KV-Binaguri 400 Kv-220 KV- BirparaPGCIL-1	POWER GRID	220 KV-Binaguri 400 Kv	No	No	No	POWERGR ID	220 KV- BirparaPGCIL	No	No	No
220KV-CHANDIL- STPS(WBSEB)-1	04-11- 2019 16:30:00	Transmission Line	220 KV- Chandil(220/132kv)- 220 KV-Santaldih TPS 220kv-1	JUSNL	220 KV- Chandil(220/13 2kv)	No	Yes	Yes	WBPDCL	220 KV-Santaldih TPS 220kv	No	No	No
220KV-JORETHANG- NEW MELLI-2	04-11- 2019 14:18:00	Transmission Line	220 KV-DANS POWER 220KV-220 KV-NEW MELLI 220KV-2	DANS POWER	220 KV-DANS POWER 220KV	No	No	No	POWERGR ID	220 KV-NEW MELLI 220KV	No	No	No

220KV-RANGPO-NEW MELLI-1	04-11-2019 14:18:00	Transmission Line	220 KV-RANGPO 400KV-220 KV-NEW MELLI 220KV-1	POWER GRID	220 KV-RANGPO 400KV	No	No	No	POWERGR ID	220 KV-NEW MELLI 220KV	No	No	No
220KV-PUSAULI-DEHRI-1	03-11-2019 11:34:00	Transmission Line	220 KV-SASARAM 765KV-220 KV-DEHRI 220KV-1	POWER GRID	220 KV- SASARAM 765KV	No	Yes	No	BSPTCL	220 KV-DEHRI 220KV	Yes	Yes	Yes
220KV-DARBHANGA (DMTCL)-SAMASTIPUR-2	02-11-2019 13:13:00	Transmission Line	220 KV-DMTCL DARBHANGA 400kv- 220 KV-SAMASTIPUR 220KV-2	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV- SAMASTIPUR 220KV	No	No	No
400KV-ALIPURDUAR-BONGAIGAON-2	02-11-2019 11:50:00	Transmission Line	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-BONGAIGAON-2	POWER GRID	400 KV- ALIPURDUAR PGCIL 400/220kv	No	No	No	NORTH_E AST REGION	400 KV- BONGAIGAON	No	No	No
220KV-BUDHIPADAR-KORBA-2 & 3	01-11-2019 13:13:00	Transmission Line	220 KV- BUDHIPADAR220KV- 220 KV-KORBA EAST_CSPGCL-2	OPTCL	220 KV- BUDHIPADAR22 0KV	No	No	No	WESTERN REGION	220 KV-KORBA EAST_CSPGCL	No	No	No
	01-11-2019 13:13:00	Transmission Line	220 KV- BUDHIPADAR220KV- 220 KV-KORBA EAST_CSPGCL-3	OPTCL	220 KV- BUDHIPADAR22 0KV	No	Yes	No	WESTERN REGION	220 KV-KORBA EAST_CSPGCL	No	No	No
400KV-BINAGURI-TALA-2	01-11-2019 12:15:00	Transmission Line	400 KV-Binaguri 400 Kv-400 KV-TALA-2	POWER GRID	400 KV-Binaguri 400 Kv	No	No	No	BHUTAN	400 KV-TALA	No	No	No