



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
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NO. ERPC/PROTECTION/2019/7727-7770

DATE: 04.11.2019

FAX MESSAGE NO. - 761

To,

As per list enclosed.

Sub: Notice for 85th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that **85th PCC meeting** of ERPC will be held on **19th November 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 84th Protection sub-Committee Meeting of ERPC.
- 2) Analysis of following grid disturbances of October, 2019:

SI No	GD/ GI	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)
1	GI-II	03-10-2019	14:05	ISTS	At 14:05 hrs, HVDC Talcher Kolar pole I tripped resulting reduction of power flow from 1500 MW to 1000 MW. At the time of incident there was no generation at GMR. So 40 MW generation reduction occurred at JITPL. Pole I was deblocked at 17:45 hrs.	0	40
2	GI-I	08-10-2019	19:26	OPTCL	At 18:04 hrs, 220 kV Budipadar – Korba – II and 220 kV Budipadar – Raigarh S/C tripped due to Y-B fault. At 18:17 hrs 220 kV Budipadar – Korba – III tripped due to Y-N fault. At 18:20 hrs. 220 kV Budipadar – Tarkera – II tripped. Fault was cleared within 100 ms. While charging this line 220 kV Budipadar bus II became dead at 19:26 hrs, tripping all elements connected to bus II i.e. 220 kV Budipadar –Lapanga– D/C, 220 kV Budipadar –IB – II & IV and 220/132 kV ICT at Budipadar.	0	0
3	GD-I	17-10-2019	08:11	ISTS	400 kV Angul –JITPL D/C tripped at 08:11 hrs while availing scheduled Shutdown of 400KV Angul –JITPL II Generation loss of 470MW occurred of JITPL Unit #2 due to loss of evacuation path.	0	470

4	GD-I	22-10-2019	11:55	JUSNL	At 11:55 Hrs, 220 KV FSTPP Lalmatia S/C tripped due to B-N Fault. At the same time, 132 KV KhSTPP-Lalmatia S/C also tripped, leading to a load loss of 44 MW. 132 KV KhSTPP - Lalmatia S/C was charged at 12:08 Hrs but tripped again while taking charging attempt of 220 KV FSTPP-Lalmatia S/C at 12:20 Hrs.	44	0
5	GD-I	25-10-2019	04:44	OPTCL	At 04:44 Hrs, B phase jumper of Bus II-isolator of 220 KV Sadaipalli – New Bargarh S/C snapped at Sadaipalli end and caught fire. For safety reason, 220 KV Bolangir (PG)-Sadaipalli was hand-tripped on emergency basis. Consequently, 220/132 KV Sadaipalli S/S became dead and load loss of 111 MW occurred in downstream areas of Sadaipalli.	111	0
6	GD-I	26-10-2019	07:27	ISTS	At 07:27 hrs, 400 kV Binaguri – Rangpo – II tripped due to B-N fault. At same time, 220 kV Jorethang – New Melli D/C tripped from Jorethang end only on DEF protection resulting tripping of running unit #1 due to loss of evacuation path.	0	45
7	GD-I	26-10-2019	15:43	ISTS	At 15:43 hrs Unit #3 and Unit #6 at Teesta III tripped on neutral overcurrent protection, and 400 KV Dikchu - Teesta III line, 400 KV Kishanganj - Teesta III tripped on overvoltage protection. All this led to loss of voltage at 400 KV Teesta III with 400 MW generation loss. Also, at this moment Dikchu Unit #1 tripped at 48 MW on neutral overcurrent protection on generator transformer.	0	448

3) Single line tripping incidences of October-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 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 Corp. 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

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-BAHARAMPUR-SAGARDIGHI-2	29-10-2019 00:29:00	Transmission Line	400 KV-BEHRAMPUR 400kv-400 KV-SAGARDIGHI(SGTPP)-2	POWERGRID	400 KV-BEHRAMPUR 400kv	No	No	No	WBPDC	400 KV-SAGARDIGHI(SGTPP)	No	No	No
2	400KV-NEW PPSP-ARAMBAGH-2	28-10-2019 00:04:00	..do..	400 KV-New_PPSP 400kv-400 KV-Arambag 400kv-2	WBSETCL	400 KV-New_PPSP 400kv	No	No	No	WBSETCL	400 KV-Arambag 400kv	No	No	No
3	400KV-NEW CHANDITALA-KHARAGPUR-1	28-10-2019 00:03:00	..do..	400 KV-New Chanditola 400 kv-400 KV-Kharagpur 400kv-1	WBSETCL	400 KV-New Chanditola 400 kv	No	No	No	WBSETCL	400 KV-Kharagpur 400kv	No	No	No
4	220KV PUSAULI-SAHUPURI-SC	27-10-2019 09:02:00	..do..	220 KV-SASARAM 765KV-220 KV-SAHUPURI-1	POWERGRID	220 KV-SASARAM 765KV	No	Yes	No	NORTHERN REGION	220 KV-SAHUPURI	No	No	No
5	220KV DARBHANGA(DMTCL)-LAUKAHI-I	26-10-2019 22:32:00	..do..	220 KV-DMTCL DARBHANGA 400kv-220 KV-LAUKAHI 220/132/33KV-1	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV-LAUKAHI 220/132/33KV	No	No	No
6		26-10-2019 21:30:00	..do..	220 KV-DMTCL DARBHANGA 400kv-220 KV-LAUKAHI 220/132/33KV-1	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV-LAUKAHI 220/132/33KV	No	No	No
7		26-10-2019 20:39:00	..do..	220 KV-DMTCL DARBHANGA 400kv-220 KV-LAUKAHI 220/132/33KV-1	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV-LAUKAHI 220/132/33KV	No	No	No

8	400KV KISHANGANJ(PG)-TEESTA-III-SC	26-10-2019 15:43:00	..do..	400 KV-KISHANGANJ 400KV-400 KV-Teesta III-1	POWERGRID	400 KV-KISHANGANJ 400KV	No	Yes	No	TUL	400 KV-Teesta III	No	No	No
9	400KV TEESTA-III-DIKCHU-SC	26-10-2019 15:43:00	..do..	400 KV-Teesta III-400 KV-DIKCHU-1	TUL	400 KV-Teesta III	No	No	No	GREENK O	400 KV-DIKCHU	No	No	No
10	220KV JORETHANG-NEW MELLI-II	26-10-2019 07:32:00	..do..	220 KV-DANS POWER 220KV-220 KV-NEW MELLI 220KV-2	OTHERS	220 KV-DANS POWER 220KV	No	No	No	POWER GRID	220 KV-NEW MELLI 220KV	No	No	No
11	220KV NEW MELLI-JORETHANG-I	26-10-2019 07:27:00	..do..	220 KV-NEW MELLI 220KV-220 KV-DANS POWER 220KV-1	POWERGRID	220 KV-NEW MELLI 220KV	No	No	No	OTHERS	220 KV-DANS POWER 220KV	No	No	No
12	400KV BINAGURI-RANGPO-II	26-10-2019 07:27:00	..do..	400 KV-Binaguri 400 Kv-400 KV-RANGPO 400KV-2	POWERGRID	400 KV-Binaguri 400 Kv	No	No	No	POWER GRID	400 KV-RANGPO 400KV	No	No	No
13	220KV BOLANGIR(PG)-SADEIPALI-SC	25-10-2019 04:44:00	..do..	220 KV-BOLANGIR 400KV-220 KV-BOLANGIRNEW220KV-1	POWERGRID	220 KV-BOLANGIR 400KV	No	No	No	OPTCL	220 KV-BOLANGIRNE W220KV	No	No	No
14	Sadaipalli New Bargarh	25-10-2019 04:44:00	..do..	220 KV-BOLANGIRNEW220KV-220 KV-NEW BARAGARH220KV-1	OPTCL	220 KV-BOLANGIRNEW 220KV	No	No	No	OPTCL	220 KV-NEW BARAGARH220KV	No	No	No
15	400KV MERAMUNDALI-LAPANGA-I	24-10-2019 15:40:00	..do..	400 KV-MERAMUNDALI 400KV-400 KV-LAPANGA-1	OPTCL	400 KV-MERAMUNDALI 400KV	Yes	Yes	Yes	OPTCL	400 KV-LAPANGA	Yes	Yes	Yes
16	220KV MADHEPURA-NEW PURNEA-I	24-10-2019 11:40:00	..do..	220 KV-MADHEPURA 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-MADHEPURA 220KV	Yes	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	Yes	No

17	400KV JEYPORE-GAJUWAKA-I	24-10-2019 08:44:00	..do..	400 KV-JEYPORE 400/220 KV-400 KV-GAZUWAKA-1	POWERGRID	400 KV-JEYPORE 400/220 KV	No	No	No	WESTER N REGION	400 KV-GAZUWAKA	No	No	No
18	400KV JEYPORE-GAZUWAKA-I	23-10-2019 20:10:00	..do..	400 KV-JEYPORE 400/220 KV-400 KV-GAZUWAKA-1	POWERGRID	400 KV-JEYPORE 400/220 KV	No	No	No	WESTER N REGION	400 KV-GAZUWAKA	No	No	No
19	400KV KHARAGPUR-CHAIBASA-I	23-10-2019 11:07:00	..do..	400 KV-Kharagpur 400kv-400 KV-Chaibasa(400/220kv)-1	WBSETCL	400 KV-Kharagpur 400kv	No	No	No	POWER GRID	400 KV-Chaibasa(400/220kv)	No	Yes	No
20	400KV JEERAT-SAGARDIGHI-SC	23-10-2019 05:05:00	..do..	400 KV-JEERAT 400kv-400 KV-SAGARDIGHI(SGTPP)-1	WBSETCL	400 KV-JEERAT 400kv	No	No	No	WBPDC	400 KV-SAGARDIGHI(SGTPP)	No	No	No
21	220KV BOLANGIR(PG)-BOLANGIR(GRIDCO)-II	22-10-2019 14:32:00	..do..	220 KV-BOLANGIR 400KV-220 KV-BOLANGIRNEW220KV-2	POWERGRID	220 KV-BOLANGIR 400KV	No	No	No	OPTCL	220 KV-BOLANGIRNEW220KV	Yes	Yes	Yes
22	400KV NEW PURNEA-BIHARSHARIFF(PG)-II	22-10-2019 13:17:00	..do..	400 KV-NEW PURNEA 400KV-400 KV-BIHARSHARIFF 400KV-2	POWERGRID	400 KV-NEW PURNEA 400KV	No	Yes	No	POWER GRID	400 KV-BIHARSHARIFF 400KV	No	No	No
23	220KV JAMSHEDPUR-JINDAL-SC	22-10-2019 12:50:00	..do..	220 KV-Jamshedpur_D(220/132kv)-220 KV-Jindal stainless Ltd. Duburi 13.8 220-1	DVC	220 KV-Jamshedpur_D(220/132kv)	No	No	No	CPPs	220 KV-Jindal stainless Ltd. Duburi 13.8 220	No	No	No
24	220KV FSTPP-LALMATIA-SC	22-10-2019 11:55:00	..do..	220 KV-Farakka(400/220/15.75)-220 KV-Lalmatia(220/132/33kv)-1	NTPC	220 KV-Farakka(400/220/15.75)	No	No	No	JUSNL	220 KV-Lalmatia(220/132/33kv)	No	No	No

25	220KV WARIA-BIDHANNAGAR-II	21-10-2019 18:27:00	..do..	220 KV-Waria (DTPS) 220/132/33/25kv-220 KV-BIDHANNAGAR/DURGAPR 400KV-2	DVC	220 KV-Waria (DTPS) 220/132/33/25 kv	No	No	No	WBSETCL	220 KV-BIDHANNAGAR/DURGAPR 400KV	No	No	No
26	400KV BINAGURI-BONGAIGAON-II	19-10-2019 17:53:00	..do..	400 KV-Binaguri 400 Kv-400 KV-BONGAIGAON-2	POWERGRID	400 KV-Binaguri 400 Kv	No	No	No	NORTH_EAST REGION	400 KV-BONGAIGAON	No	No	No
27	220KV GAYA-KHIZERSARAI-I	19-10-2019 15:31:00	..do..	220 KV-GAYA 765KV-220 KV-KHIZISARAI 220KV-1	POWERGRID	220 KV-GAYA 765KV	No	Yes	No	BGCL	220 KV-KHIZISARAI 220KV	No	No	No
28	400KV ALIPURDUAR-BONGAIGAON-II	19-10-2019 11:56:00	..do..	400 KV-ALIPURDUAR PGCIL 400/220KV-400 KV-BONGAIGAON-2	POWERGRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	NORTH_EAST REGION	400 KV-BONGAIGAON	No	No	No
29	400KV PATNA-BARHI	19-10-2019 00:50:00	..do..	400 KV-PATNA 400KV-400 KV-BARHI 400kv-1	POWERGRID	400 KV-PATNA 400KV	No	Yes	No	NTPC	400 KV-BARHI 400kv	No	No	No
30	220KV BUDHIPADAR-KORBA-II	18-10-2019 14:37:00	..do..	220 KV-BUDHIPADAR220KV-220 KV-KORBA EAST_CSPGCL-2	OPTCL	220 KV-BUDHIPADAR220KV	Yes	Yes	Yes	WESTERN REGION	220 KV-KORBA EAST_CSPGCL	No	No	No
31	220KV BUDHIPADAR-RAIGARH-SC	18-10-2019 14:37:00	..do..	220 KV-BUDHIPADAR220KV-220 KV-RAIGARH_PGCIL-1	OPTCL	220 KV-BUDHIPADAR220KV	Yes	Yes	Yes	WESTERN REGION	220 KV-RAIGARH_PGCIL	No	No	No
32	400KV KHARAGPUR-KOLAGHAT-I	18-10-2019 10:51:00	..do..	400 KV-Kharagpur 400kv-400 KV-Kolaghat TPS 400kv-1	WBSETCL	400 KV-Kharagpur 400kv	No	No	No	WBPDCL	400 KV-Kolaghat TPS 400kv	No	No	No

33	220KV RENGALI(PH)-TSTPP-SC	17-10-2019 12:35:00	..do..	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	Yes	Yes
34	400KV ANGUL-JITPL-I	17-10-2019 08:12:00	..do..	400 KV-ANGUL -400 KV-JITPL (Derang)21/400-1	POWERGRID	400 KV-ANGUL	No	No	No	JITPL	400 KV-JITPL (Derang)21/400	No	No	No
35	400KV PPSP-BIDHANNAGAR-I	17-10-2019 04:50:00	..do..	400 KV-PPSP 400kv-400 KV-BIDHANNAGAR/DURGAPR 400KV-1	WBSEDCL	400 KV-PPSP 400kv	No	No	No	WBSETCL	400 KV-BIDHANNAGAR/DURGAPR 400KV	No	No	No
36	400KV NEW PURNEA-BIHARSARIFF(PG)-I	16-10-2019 19:14:00	..do..	400 KV-NEW PURNEA 400KV-400 KV-BIHARSHARIFF 400KV-1	POWERGRID	400 KV-NEW PURNEA 400KV	No	Yes	No	POWER GRID	400 KV-BIHARSHARIFF 400KV	No	No	No
37	400KV ALIPURDUAR-BONGAIGAON-II	16-10-2019 17:37:00	..do..	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-BONGAIGAON-2	POWERGRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	NORTH_ EAST REGION	400 KV-BONGAIGAON	No	No	No
38	220KV DARBHANGA(DMTCL)-LAUKAHI-I	16-10-2019 04:17:00	..do..	220 KV-DMTCL DARBHANGA 400kv-220 KV-LAUKAHI 220/132/33KV-1	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV-LAUKAHI 220/132/33KV	No	No	No
39	220KV GAYA-SONENAGAR-II	16-10-2019 00:35:00	..do..	220 KV-GAYA 765KV-220 KV-SONENAGAR 220KV-2	POWERGRID	220 KV-GAYA 765KV	No	Yes	No	BSPTCL	220 KV-SONENAGAR 220KV	Yes	Yes	Yes
40		15-10-2019 04:38:00	..do..	220 KV-GAYA 765KV-220 KV-SONENAGAR 220KV-2	POWERGRID	220 KV-GAYA 765KV	No	Yes	No	BSPTCL	220 KV-SONENAGAR 220KV	Yes	Yes	Yes

41	220KV BEGUSARAI-NEW PURNEA-II	14-10-2019 20:26:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-2	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
42	400KV DARBHANGA (DMTCL)-MUZAFFARPUR-II	14-10-2019 13:32:00	..do..	400 KV-DMTCL DARBHANGA 400kv-400 KV-MUZAFFARPUR 400KV-2	DMTCL	400 KV-DMTCL DARBHANGA 400kv	Yes	Yes	No	POWER GRID	400 KV-MUZAFFARPUR 400KV	No	Yes	No
43	220KV CHUKHA-BIRPARA-I	14-10-2019 03:43:00	..do..	220 KV-CHUKHA-220 KV-BirparaPGCIL-1	BHUTAN	220 KV-CHUKHA	No	No	No	POWER GRID	220 KV-BirparaPGCIL	No	No	No
44	220KV BEGUSARAI-NEW PURNEA-I	12-10-2019 19:28:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
45	220KV DALKHOLA (WB)-DALKHOLA (PG)-I	12-10-2019 15:14:00	..do..	220 KV-Dalkhola 220kv-220 KV-DALKHOLA 220KV-1	WBSETCL	220 KV-Dalkhola 220kv	No	No	No	POWER GRID	220 KV-DALKHOLA 220KV	No	No	No
46	220KV DARBHANGA (DMTCL)-MOTIPUR-II	12-10-2019 12:42:00	..do..	220 KV-DMTCL DARBHANGA 400kv-220 KV-MOTIPUR 220 KV-2	DMTCL	220 KV-DMTCL DARBHANGA 400kv	No	No	No	BSPTCL	220 KV-MOTIPUR 220 KV	No	No	No
47	220KV DARBHANGA (DMTCL)-MOTIPUR-I	12-10-2019 12:38:00	..do..	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	No	No	No
48	220KV BEGUSARAI-NEW PURNEA-II	12-10-2019 11:24:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No

49	220KV GAYA-SONENAGAR-I	12-10-2019 08:55:00	..do..	220 KV-GAYA 765KV-220 KV-SONENAGAR 220KV-1	POWERGRID	220 KV-GAYA 765KV	No	Yes	No	BSPTCL	220 KV-SONENAGAR 220KV	Yes	Yes	Yes
50	400KV BINAGURI-ALIPURDUAR-II	12-10-2019 05:58:00	..do..	400 KV-Binaguri 400 Kv-400 KV-ALIPURDUAR PGCIL 400/220kv-2	POWERGRID	400 KV-Binaguri 400 Kv	No	No	No	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No
51	400KV BINAGURI-NEW PURNEA-II	12-10-2019 05:58:00	..do..	220 KV-Binaguri 400 Kv-220 KV-NEW PURNEA 400KV-2	POWERGRID	220 KV-Binaguri 400 Kv	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
52	220KV FSTPP-LALMATIA-SC	11-10-2019 11:19:00	..do..	220 KV-Farakka(400/220/15.75)-220 KV-Lalmatia(220/132/33kv)-1	NTPC	220 KV-Farakka(400/220/15.75)	No	No	No	JUSNL	220 KV-Lalmatia(220/132/33kv)	No	No	No
53	220KV BEGUSARAI-NEW PURNEA-II	10-10-2019 19:07:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
54	220KV BEGUSARAI-NEW PURNEA-I	10-10-2019 18:55:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
55	400KV NEW PPSP-NEW RANCHI-II	10-10-2019 13:06:00	..do..	400 KV-New_PPSP 400kv-400 KV-Ranchi_N(765/400kV)-2	WBSETCL	400 KV-New_PPSP 400kv	No	No	No	POWER GRID	400 KV-Ranchi_N(765/400kv)	No	Yes	No
56	220KV STPS(WBSEB)-CHANDIL-SC	10-10-2019 00:28:00	..do..	220 KV-Santaldih TPS 220kv-220 KV-Chandil(220/132kv)-1	WBPDC	220 KV-Santaldih TPS 220kv	No	No	No	JUSNL	220 KV-Chandil(220/132kv)	No	No	No

57	400KV RAJARHAT-JEERAT-SC	08-10-2019 19:25:00	..do..	400 KV-RAJARHAT(400/220KV)-400 KV-JEERAT 400kv-1	POWERGRID	400 KV-RAJARHAT(400/220KV)	No	No	No	WBSETCL	400 KV-JEERAT 400kv	No	No	No
58	220KV BUDHIPADAR-KORBA-III	08-10-2019 18:17:00	..do..	220 KV-BUDHIPADAR220KV-220 KV-KORBA EAST_CSPGCL-3	OPTCL	220 KV-BUDHIPADAR220KV	No	Yes	No	WESTERN REGION	220 KV-KORBA EAST_CSPGCL	No	No	No
59	220KV BUDHIPADAR multiple tripping	08-10-2019 18:03:00	..do..	220 KV-BUDHIPADAR220KV-220 KV-KORBA EAST_CSPGCL-2	OPTCL	220 KV-BUDHIPADAR220KV	No	Yes	Yes	WESTERN REGION	220 KV-KORBA EAST_CSPGCL	No	No	No
60		08-10-2019 18:03:00	..do..	220 KV-BUDHIPADAR220KV-220 KV-RAIGARH_PGCIL-1	OPTCL	220 KV-BUDHIPADAR220KV	No	Yes	Yes	WESTERN REGION	220 KV-RAIGARH_PGCIL	No	No	No
61	400 KV-KAHALGAON 400kv-400 KV-BARH 400kv	08-10-2019 11:52:00	..do..	400 KV-KAHALGAON 400kv-400 KV-BARH 400kv-2	NTPC	400 KV-KAHALGAON 400kv	No	No	No	NTPC	400 KV-BARH 400kv	Yes	Yes	Yes
62	220KV NEW PURNEA-BEGUSARAI-DC	08-10-2019 02:06:00	..do..	220 KV-NEW PURNEA 400KV-220 KV-BEGUSARAI 220KV-1	POWERGRID	220 KV-NEW PURNEA 400KV	No	No	No	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No
63		08-10-2019 02:06:00	..do..	220 KV-NEW PURNEA 400KV-220 KV-BEGUSARAI 220KV-2	POWERGRID	220 KV-NEW PURNEA 400KV	No	No	No	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No
64	400KV ALIPURDUAR-JIGMELLING-DC	08-10-2019 01:19:00	..do..	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-JIGMELLING-1	POWERGRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	BHUTAN	400 KV-JIGMELLING	No	No	No

65		08-10-2019 01:19:00	..do..	400 KV-ALIPURDUAR PGCIL 400/220kv- 400 KV-JIGMELLING- 2	POWERGRID	400 KV- ALIPURDUAR PGCIL 400/220kv	No	No	No	BHUTAN	400 KV- JIGMELLING	No	No	No
66	220KV BUDHIPADAR- RAIGARH-SC	07-10-2019 15:14:00	..do..	220 KV- BUDHIPADAR220KV- 220 KV- RAIGARH_PGCIL-1	OPTCL	220 KV- BUDHIPADAR22 0KV	No	Yes	Yes	WESTER N REGION	220 KV- RAIGARH_PGC IL	No	No	No
67	400KV NEW PPSP- NEW RANCHI-II	07-10-2019 14:40:00	..do..	400 KV-New_PPSP 400kv-400 KV- Ranchi_N(765/400k V)-2	WBSETCL	400 KV- New_PPSP 400kv	No	No	No	POWER GRID	400 KV- Ranchi_N(765 /400kv)	No	Yes	No
68	400KV NEW PPSP- ARAMBAGH-II	07-10-2019 12:06:00	..do..	400 KV-New_PPSP 400kv-400 KV- Arambag 400kv-2	WBSETCL	400 KV- New_PPSP 400kv	No	No	No	WBSETC L	400 KV- Arambag 400kv	No	No	No
69	400 KV-LAPANGA- 400 KV-OPGC-1	07-10-2019 00:50:00	..do..	400 KV-LAPANGA- 400 KV-OPGC-1	OPTCL	400 KV- LAPANGA	Yes	Yes	Yes	OPGC	400 KV-OPGC	No	No	No
70	220KV RENGALI(PH)- RENGALI-DC	06-10-2019 16:54:00	..do..	220 KV-RENGALI 400KV-220 KV- Rengali Hydro Power House(HPS) 11/220- 1	POWERGRID	220 KV- RENGALI 400KV	No	No	No	OHPC	220 KV- Rengali Hydro Power House(HPS) 11/220	No	No	No
71		06-10-2019 16:54:00	..do..	220 KV-RENGALI 400KV-220 KV- Rengali Hydro Power House(HPS) 11/220- 2	POWERGRID	220 KV- RENGALI 400KV	No	No	No	OHPC	220 KV- Rengali Hydro Power House(HPS) 11/220	No	No	No
72	220KV RENGALI(PH)- TSTPP-SC	06-10-2019 15:46:00	..do..	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	Yes	Yes

73	400KV LAPANGA-OPGC (IB THERMAL)-1	06-10-2019 15:37:00	..do..	400 KV-LAPANGA-400 KV-OPGC-1	OPTCL	400 KV-LAPANGA	Yes	Yes	Yes	OPGC	400 KV-OPGC	No	No	No
74	400KV BINAGURI-ALIPURDUAR-II	06-10-2019 12:22:00	..do..	400 KV-Binaguri 400 Kv-400 KV-ALIPURDUAR PGCIL 400/220kv-2	POWERGRID	400 KV-Binaguri 400 Kv	No	Yes	No	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No
75	400KV PATNA-KISHANGANJ-I	06-10-2019 10:39:00	..do..	400 KV-PATNA 400KV-400 KV-KISHANGANJ 400KV-1	POWERGRID	400 KV-PATNA 400KV	No	No	No	POWER GRID	400 KV-KISHANGANJ 400KV	No	Yes	No
76	220KV CHANDIL-RANCHI-sc	06-10-2019 01:42:00	..do..	220 KV-Chandil(220/132kv)-220 KV-Ranchi(400/220kv)-1	JUSNL	220 KV-Chandil(220/132kv)	No	No	No	POWER GRID	220 KV-Ranchi(400/220kv)	No	Yes	No
77	220KV DARBHANGA (DMTCL)-MOTIPUR-II	05-10-2019 11:26:00	..do..	220 KV-DARBHANGA NEW 220KV-220 KV-MOTIPUR 220 KV-2	BSPTCL	220 KV-DARBHANGA NEW 220KV	No	No	No	BSPTCL	220 KV-MOTIPUR 220 KV	No	No	No
78	400KV BARIPADA-KHARAGPUR-SC	05-10-2019 11:12:00	..do..	400 KV-BARIPADA KUCHEI 400KV-400 KV-Kharagpur 400kv-1	POWERGRID	400 KV-BARIPADA KUCHEI 400KV	No	No	No	WBSETCL	400 KV-Kharagpur 400kv	No	No	No
79	220KV JAMSHEDPUR-JINDAL-SC	05-10-2019 10:48:00	..do..	220 KV-Jamshedpur_D(220/132kv)-220 KV-Jindal stainless Ltd. Duburi 13.8 220-1	DVC	220 KV-Jamshedpur_D(220/132kv)	No	No	No	CPPs	220 KV-Jindal stainless Ltd. Duburi 13.8 220	No	No	No

80	400 KV-Ranchi(400/220kV)- 400 KV-Raghunathpur TPS 20/400/220/33kV-3	04-10-2019 18:53:00	..do..	400 KV-Ranchi(400/220kV)- 400 KV-Raghunathpur TPS 20/400/220/33kV-3	POWERGRID	400 KV-Ranchi(400/220 kV)	No	Yes	No	DVC	400 KV-Raghunathpur TPS 20/400/220/3 3kV	No	No	No
81	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	04-10-2019 15:25:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
82	400KV BINAGURI- TALA-IV	04-10-2019 14:23:00	..do..	400 KV-TALA-400 KV- Binaguri 400 Kv-4	BHUTAN	400 KV-TALA	No	No	No	POWER GRID	400 KV- Binaguri 400 Kv	No	Yes	No
83	220 KV-DMTCL DARBHANGA 400kV- 220 KV-MOTIPUR 220 KV-1	04-10-2019 11:54:00	..do..	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
84		04-10-2019 11:54:00	..do..	220 KV-DMTCL DARBHANGA 400kV- 220 KV-MOTIPUR 220 KV-2	DMTCL	220 KV-DMTCL DARBHANGA 400kV	No	No	No	BSPTCL	220 KV- MOTIPUR 220 KV	Yes	No	No
85	220KV BEGUSARAI- NEW PURNEA-II	03-10-2019 19:05:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-2	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
86	400KV KODERMA- BIHARSARIFF(PG)-I	02-10-2019 21:04:00	..do..	400 KV- Koderma_G(400/22 0/21kV)-400 KV- BIHARSHARIFF 400KV-1	DVC	400 KV- Koderma_G(400 /220/21kV)	No	No	No	POWER GRID	400 KV- BIHARSHARIFF 400KV	No	No	No
87	220KV PUSAULI- SAHUPURI-SC	02-10-2019 19:02:00	..do..	220 KV-PUSAULI 220KV-220 KV- SAHUPURI-1	BSPTCL	220 KV-PUSAULI 220KV	No	No	No	NORTHE RN REGION	220 KV- SAHUPURI	No	No	No

88	220KV BEGUSARAI-NEW PURNEA-II	02-10-2019 18:36:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-2		220 KV-BEGUSARAI 220KV				POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
89	400KV KHARAGPUR-CHAIBASA-II	02-10-2019 14:29:00	..do..	400 KV-Kharagpur 400kv-400 KV-Chaibasa(400/220kv)-2	WBSETCL	400 KV-Kharagpur 400kv	No	No	No	POWER GRID	400 KV-Chaibasa(400/220kv)	No	No	No
90	400KV BINAGURI-TALA-II	02-10-2019 14:11:00	..do..	400 KV-Binaguri 400 Kv-400 KV-TALA-2		400 KV-Binaguri 400 Kv				BHUTAN	400 KV-TALA	No	No	No
91	400KV BIHARSARIFF(PG)-VARANASI-II	02-10-2019 13:58:00	..do..	400 KV-BIHARSHARIFF 400KV-400 KV-VARANASI-2	POWERGRID	400 KV-BIHARSHARIFF 400KV	No	Yes	No	NORTHERN REGION	400 KV-VARANASI	No	No	No
92	220KV HAZIPUR-MUZAFFARPUR-I	02-10-2019 11:54:00	..do..	220 KV-HAZIPUR NEW 220KV-220 KV-MUZAFFARPUR 400KV-1	BSPTCL	220 KV-HAZIPUR NEW 220KV	No	No	No	POWER GRID	220 KV-MUZAFFARPUR 400KV	No	Yes	No
93	220KV BEGUSARAI-NEW PURNEA-I	02-10-2019 04:12:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
94	220KV BEGUSARAI-NEW PURNEA-II	02-10-2019 01:36:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
95	220KV BEGUSARAI-NEW PURNEA-I	01-10-2019 14:10:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No
96	220KV BEGUSARAI-NEW PURNEA-II	01-10-2019 14:08:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-2	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No

97	400KV JEYPORE-GAZUWAKA-I	01-10-2019 13:17:00	..do..	400 KV-JEYPORE 400/220 KV-400 KV-GAZUWAKA-1	POWERGRID	400 KV-JEYPORE 400/220 KV	No	No	No	WESTER N REGION	400 KV-GAZUWAKA	No	No	No
98	220KV BEGUSARAI-NEW PURNEA-I	01-10-2019 01:10:00	..do..	220 KV-BEGUSARAI 220KV-220 KV-NEW PURNEA 400KV-1	BSPTCL	220 KV-BEGUSARAI 220KV	No	No	No	POWER GRID	220 KV-NEW PURNEA 400KV	No	No	No