



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/2020/10300-10344

DATE: 02.01.2020

FAX MESSAGE NO. - 08

To,

As per list enclosed.

Sub: Notice for 87th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that **87th PCC meeting** of ERPC will be held on **21st January, 2020 (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 86th Protection sub-Committee Meeting of ERPC.
- 2) Analysis of following grid disturbances of December, 2019:

SI No	GD/GI	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)
1	GI-II	06-12-2019	10:58	WBSETCL	220 Kv sagardighi Gokaran 1 was under planned shutdown. At 10:58 hrs B phase CT-blast of 220 kV Gokarna - Sadaipur - 2 resulted bus fault at Gokarna which led to tripping of all lines connected to bus 2 at Gokarna end. 400 kV Farakka Gokarna S/C also tripped at same time sensing the same fault in Z-III. Line was in charged condition from Gokarna end. As per verbal information received, there is no bus bar protection at 220 kV level at Gokarna. As per PMU, fault clearance was around 1 second (Z-III time)	0	0
2	GD-I	09-12-2019	11:35	JUSNL	132 KV KhSTPP - Lalmatia S/C under shutdown. At 10:26 Hrs, 220 KV FSTPP - Lalmatia S/C tripped from Lalmatia end only due to pole discrepancy. Consequently, 38 MW load loss occurred at Lalmatia. Lalmatia availed power from Dumka through 132 KV Dumka-Lalmatia D/C at 11:25 Hrs. At 11:35 hrs this D/C lines tripped resulting power failure at Lalmatia.	38	0
3	GD-I	12-12-2019	11:18	BSPTCL	Planned shutdown of 220 KV Gaya-Sonenagar 1 was availed at 11:12 Hrs. At 11:18 Hrs 220 KV Gaya-Sonenagar 2 tripped	90	0

					from Sonenagar on R-N fault leading to a load loss of 90 MW in downstream at Sonenagar and Japla (Traction loss- 20 MW at Japla). Auto-reclose was successful at Gaya.		
4	GD-I	14-12-2019	02:50	BSPTCL	220 KV Darbhanga(DMTCL)-Motipur II was kept open on voltage regulation from 14:35 hrs on 13.12.19. At around 02:50 hrs on 14-12-19, 220 kV Darbhanga(DMTCL) – Motipur I and 220 kV MTPS – Motipur tripped on E/F causing load loss of around 45 MW at Motipur / Sitamari/Musari area of BSPTCL system. 220 kV Darbhanga(DMTCL) – Motipur I was taken in to service at 03:25 hrs and tripped again on E/F at 03:37 hrs.	45	0
5	GD-I	19-12-2019	17:09	BSPTCL	220 KV Bharsariff- Khizersarai S/C , 132 KV Bus at Lakhisarai & 132 KV Banka-Sultanganj D/c were out of service. 220 KV Gaya-Khizersarai I tripped at 17.09 hrs on B-N fault. 220KV Gaya-Khizersarai II tripped on overload interrupting power supply to Khizersarai S/S. In absence of feed from other sources like Biharshariff, Lakhisarai and Banka due to shutdown, total power failure occurred at Khizersarai and its surrounding areas.	266	0
6	GD-I	28-12-2019	05:26	DVC	At 05:26 hrs 220KV CTPS A-CTPS B D/C tie lines tripped on differential protection resulting tripping of all 220 kV feeders at CTPS A and all 220/132 kV at CTPS A. At the same time, U#8 of CTPS B also tripped.	300	193

3) Single line tripping incidences of December-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

Tripping Name	Tripping Date & Time	Element Name	From Owner	From Station	FIR(F)	DR(F)	EL(F)	To Owner	To Station	FIR(T)	DR(T)	EL(T)	Status
400KV-RENGALI-INDRAVATI-1	28-12-2019 15:34:00	400 KV-RENGALI 400KV-400 KV-INDRAVATI 400KV-1	POWER GRID	400 KV-RENGALI 400KV	No	No	No	POWER GRID	400 KV-INDRAVATI 400KV	No	No	No	OPENED
220KV-TTPS-TSTPP-1	28-12-2019 10:06:00	220 KV-TALCHER(TTPS)220 KV-220 KV-Talcher	OPTCL	220 KV-TALCHER(TTPS)220 KV	No	No	No	NTPC	220 KV-Talcher super thermal power 21/400	No	No	No	OPENED
400KV-BARIPADA-KEONJHOR-1	27-12-2019 02:57:00	400 KV-BARIPADA KUCHEI 400KV-400 KV-	POWER GRID	400 KV-BARIPADA KUCHEI 400KV	No	No	No	POWER GRID	400 KV-KEONJHAR400KV	No	No	No	OPENED
400KV-PATNA-BALIA-4	26-12-2019 00:02:00	400 KV-PATNA 400KV-400 KV-BALIA-4	POWER GRID	400 KV-PATNA 400KV	No	No	No	NORTHERN REGION	400 KV-BALIA	No	No	No	OPENED
400KV-BAHARAMPUR-SAGARDIGHI-1	24-12-2019 08:43:00	400 KV-BEHRAMPUR 400kv-400 KV-	POWER GRID	400 KV-BEHRAMPUR 400kv	No	No	No	WBPDCL	400 KV-SAGARDIGHI(SGTPP)	No	No	No	OPENED
400KV-BINAGURI-NEW PURNEA-2	24-12-2019 04:44:00	400 KV-Binaguri 400 Kv-400 KV-NEW PURNEA 400KV-2	POWER GRID	400 KV-Binaguri 400 Kv	No	Yes	No	POWER GRID	400 KV-NEW PURNEA 400KV	No	No	No	OPENED
400KV-ARAMBAGH-BAKRESWAR-1	24-12-2019 03:34:00	400 KV-Arambag 400kv-400 KV-BAKRESWAR 400kv-	WBSETCL	400 KV-Arambag 400kv	No	No	No	WBPDCL	400 KV-BAKRESWAR 400kv	No	No	No	OPENED
400KV-BAHARAMPUR-SAGARDIGHI-1	23-12-2019 07:11:00	400 KV-BEHRAMPUR 400kv-400 KV-	POWER GRID	400 KV-BEHRAMPUR 400kv	No	No	No	WBPDCL	400 KV-SAGARDIGHI(SGTPP)	No	No	No	OPENED
220KV-GAYA-KHIZERSARAI-DC	19-12-2019 17:09:00	220 KV-GAYA 765KV-220 KV-KHIZISARAI 220KV-1	POWER GRID	220 KV-GAYA 765KV	No	No	No	BGCL	220 KV-KHIZISARAI 220KV	No	No	No	OPENED
	19-12-2019 17:09:00	220 KV-GAYA 765KV-220 KV-KHIZISARAI 220KV-2	POWER GRID	220 KV-GAYA 765KV	No	No	No	BGCL	220 KV-KHIZISARAI 220KV	No	No	No	OPENED

220KV-NEW MELLI-JORETHANG-1	18-12-2019 14:25:00	220 KV-NEW MELLI 220KV-220 KV- DANS POWER	POWER GRID	220 KV-NEW MELLI 220KV	No	No	Yes	DANS POWER	220 KV-DANS POWER 220KV	No	No	No	OPENE D
220KV-RAJARHAT-JEERAT-1	18-12-2019 14:10:00	220 KV- RAJARHAT(400/220 KV)-220 KV-JEERAT	POWER GRID	220 KV- RAJARHAT(400/220 KV)	No	No	No	WBSET CL	220 KV-JEERAT 400kv	No	No	No	OPENE D
220KV-NEW MELLI-TASHIDING-1	17-12-2019 14:17:00	220 KV-NEW MELLI 220KV-220 KV- TASHIDING HEP	POWER GRID	220 KV-NEW MELLI 220KV	No	No	Yes	DANS POWER	220 KV-TASHIDING HEP 11/220KV GS	No	No	No	OPENE D
400KV-KISHANGANJ-TEESTA-III-1	17-12-2019 11:34:00	400 KV- KISHANGANJ 400KV- 400 KV-Teesta III-1	POWER GRID	400 KV- KISHANGANJ 400KV	No	No	No	TUL	400 KV-Teesta III	No	No	No	OPENE D
220 KV-Santaldih TPS 220kv-220 KV- Chandil(220/132kv)-	15-12-2019 03:17:00	220 KV- SAGARDIGHI(SGTPP) -220 KV-	WBPDCL	220 KV- SAGARDIGHI(SGTP P)	No	No	No	JUSNL	220 KV- Chandil(220/132kv)	No	Yes	Yes	OPENE D
220 KV- RAJARHAT(400/220 KV)-220 KV-JEERAT	14-12-2019 15:32:00	220 KV- RAJARHAT(400/220 KV)-220 KV-JEERAT	POWER GRID	220 KV- RAJARHAT(400/220 KV)	No	No	No	WBSET CL	220 KV-JEERAT 400kv	No	No	No	OPENE D
220 KV-DMTCL DARBHANGA 400kv- 220 KV-MOTIPUR 220 KV-1	14-12-2019 03:37:00	220 KV-DMTCL DARBHANGA 400kv- 220 KV-MOTIPUR 220 KV-1		220 KV-DMTCL DARBHANGA 400kv				BSPTCL	220 KV-MOTIPUR 220 KV	Yes	No	No	OPENE D
220 KV- DARBHANGA NEW 220KV-220 KV-	14-12-2019 02:50:00	220 KV- DARBHANGA NEW 220KV-220 KV-	BSPTCL	220 KV- DARBHANGA NEW 220KV	No	No	No	BSPTCL	220 KV-MOTIPUR 220 KV	Yes	No	No	OPENE D
GI at New PPSP	13-12-2019 22:12:00	400 KV-New_PPSP 400kv-400 KV- Arambag 400kv-1	WBSETC L	400 KV-New_PPSP 400kv	No	No	No	WBSET CL	400 KV-Arambag 400kv	No	No	No	OPENE D
	13-12-2019 22:12:00	400 KV-New_PPSP 400kv-400 KV- Arambag 400kv-2	WBSETC L	400 KV-New_PPSP 400kv	No	No	No	WBSET CL	400 KV-Arambag 400kv	No	No	No	OPENE D

400 KV-New_PPSP 400kv-400 KV- Arambag 400kv-1	13-12-2019 21:48:00	400 KV-New_PPSP 400kv-400 KV- Arambag 400kv-2	WBSETC L	400 KV-New_PPSP 400kv	No	No	No	WBSET CL	400 KV-Arambag 400kv	No	No	No	OPENE D
400 KV-RANGPO 400KV-400 KV- DIKCHU-1	13-12-2019 19:17:00	400 KV-RANGPO 400KV-400 KV- DIKCHU-1	POWER GRID	400 KV-RANGPO 400KV	No	Yes	No	GREEN KO	400 KV-DIKCHU	No	No	No	OPENE D
400 KV-NEW PURNEA 400KV-400 KV-BIHARSHARIFF	13-12-2019 06:32:00	400 KV-NEW PURNEA 400KV-400 KV-BIHARSHARIFF	POWER GRID	400 KV-NEW PURNEA 400KV	No	No	No	POWER GRID	400 KV-BIHARSHARIFF 400KV	No	No	No	OPENE D
765 KV-GAYA 765KV- 765 KV-BALIA-1	13-12-2019 01:11:00	765 KV-GAYA 765KV- 765 KV-BALIA-1	POWER GRID	765 KV-GAYA 765KV	No	No	No	NORTH ERN REGIO	765 KV-BALIA	No	No	No	OPENE D
400 KV-Binaguri 400 Kv-400 KV- ALIPURDUAR PGCIL	12-12-2019 17:41:00	400 KV-Binaguri 400 Kv-400 KV- ALIPURDUAR PGCIL	POWER GRID	400 KV-Binaguri 400 Kv	No	No	No	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	OPENE D
220 KV-GAYA 765KV- 220 KV- SONENAGAR 220KV-	12-12-2019 11:19:00	220 KV-GAYA 765KV- 220 KV- SONENAGAR 220KV-	POWER GRID	220 KV-GAYA 765KV	No	No	No	BSPTCL	220 KV-SONENAGAR 220KV	No	No	No	OPENE D
400KV-KHSTPP- LAKHISARAI-1	09-12-2019 10:55:00	400 KV- KAHALGAON 400kv- 400 KV-LAKHISARAI	NTPC	400 KV- KAHALGAON 400kv	Yes	Yes	Yes	POWER GRID	400 KV-LAKHISARAI 400KV	No	No	No	OPENE D
220KV-FSTPP- LALMATIA-1	09-12-2019 10:26:00	220 KV- Farakka(400/220/1 5.75)-220 KV-	NTPC	220 KV- Farakka(400/220/1 5.75)	No	No	No	JUSNL	220 KV- Lalmatia(220/132/33kv)	No	No	No	OPENE D
400KV-FSTPP- GOKARNO-1	06-12-2019 10:58:00	400 KV- Farakka(400/220/1 5.75)-400 KV-	NTPC	400 KV- Farakka(400/220/1 5.75)	No	No	No	WBSET CL	400 KV-Gokarna 400/220KV	No	No	No	OPENE D
400KV-ALIPURDUAR (PG)-JIGMELLING-2I	05-12-2019 17:17:00	400 KV- ALIPURDUAR PGCIL 400/220kv-400 KV-	POWER GRID	400 KV- ALIPURDUAR PGCIL 400/220kv	No	No	No	BHUTA N	400 KV-JIGMELLING	No	No	No	OPENE D
220KV- BUDHIPADAR- KORBA-3	05-12-2019 03:19:00	220 KV- BUDHIPADAR220KV- 220 KV-KORBA	OPTCL	220 KV- BUDHIPADAR220K V	No	No	No	WESTE RN REGIO	220 KV-KORBA EAST_CSPGCL	No	No	No	OPENE D

400KV-ANGUL-TSTPP-1	04-12-2019 13:55:00	400 KV-ANGUL -400 KV-Talcher super thermal power	POWER GRID	400 KV-ANGUL	No	No	No	NTPC	400 KV-Talcher super thermal power 21/400	No	No	No	OPENED
400KV-ALIPURDUAR (PG)-JIGMELLING-2	04-12-2019 04:03:00	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	BHUTAN	400 KV-JIGMELLING	No	No	No	OPENED
400KV-ALIPURDUAR (PG)-JIGMELLING-DC	04-12-2019 02:07:00	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	BHUTAN	400 KV-JIGMELLING	No	No	No	OPENED
	04-12-2019 02:07:00	400 KV-ALIPURDUAR PGCIL 400/220kv-400 KV-	POWER GRID	400 KV-ALIPURDUAR PGCIL 400/220kv	No	No	No	BHUTAN	400 KV-JIGMELLING	No	No	No	OPENED
400KV-DSTPS(ANDAL)-RAGHUNATHPUR-2	02-12-2019 23:54:00	400 KV-Durgapur steel TPS 21/400kv-400 KV-	DVC	400 KV-Durgapur steel TPS 21/400kv	No	No	No	DVC	400 KV-Raghunathpur TPS 20/400/220/33kv	No	No	No	OPENED
	01-12-2019 23:54:00	400 KV-Durgapur steel TPS 21/400kv-400 KV-	DVC	400 KV-Durgapur steel TPS 21/400kv	No	No	No	DVC	400 KV-Raghunathpur TPS 20/400/220/33kv	No	No	No	OPENED
400 KV-SAGARDIGHI(SGTPP)-400 KV-Jeerat 400kv-TRIPPED	01-12-2019 13:30:00	400 KV-SAGARDIGHI(SGTPP)-400 KV-Jeerat 400kv-1	WBPDC	400 KV-SAGARDIGHI(SGTPP)	No	No	No						OPENED
400KV-JEERAT-SAGARDIGHI-1	01-12-2019 13:30:00	400 KV-JEERAT 400kv-400 KV-SAGARDIGHI(SGTPP)	WBSETCL	400 KV-JEERAT 400kv	No	No	No	WBPDC	400 KV-SAGARDIGHI(SGTPP)	No	No	No	OPENED
400KV-NEW CHANDITALA-KHARAGPUR-1	01-12-2019 12:53:00	400 KV-New Chanditola 400 kv-400 KV-Kharagpur	WBSETCL	400 KV-New Chanditola 400 kv	No	No	No	WBSETCL	400 KV-Kharagpur 400kv	No	No	No	OPENED