



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति

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Azadi Ka
Amrit Mahotsav



Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

Tel. No.:033-24239651,24239659 FAX No.:033-24239652, 24239653 Web:www.erpc.gov.in

सं./NO. पू.क्षे.वि.स./PROTECTION/2022/

दिनांक /DATE: 04.02.2022

सेवामें / To,

संलग्नसूचीके अनुसार/ As per list enclosed.

विषय : पू.क्षे.वि.स. की 111वीं संरक्षण समन्वय उप-समित (पीसीसी) की बैठक हेतु सूचना I

Sub: Notice for 111th Protection Coordination sub-Committee (PCC) meeting of ERPC.

Sir/Madam,

यह सूचित किया जाता है कि पू.क्षे.वि.स की 111वीं पीसीसी बैठक 11 फरवरी 2022 (शुक्रवार) को 10:30 बजे से ऑनलाइन माइक्रोसॉफ्ट टीम्स मीटिंग प्लेटफॉर्म के माध्यम से आयोजित की जाएगी। मीटिंग लिंक ई-मेल या संदेश के माध्यम से अग्रेषित किया जाएगा।

Notice is hereby given that **111th PCC meeting** of ERPC will be held on **11th February, 2022 (Friday)** from **10:30 hrs** through **online Microsoft Teams meeting platform**. The meeting link will be forwarded through e-mail or message.

चर्चा हेतु अस्थायी कार्यसूची बिन्दुएं निम्नानुसार होंगे :

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 110th Protection sub-Committee Meeting of ERPC
- 2) Analysis of following grid disturbances of January, 2022:
 - Total Power failure at 220 kV Tenughat (TVNL) S/s on 01.01.2022 at 05:58 Hrs.
 - Total Power failure at 220/132 kV Garhwa (JUSNL) S/s on 02.01.2022 at 04:29 Hrs
 - Total Power failure at 400 kV Dikchu S/s on 04.01.2022 at 13:14 Hrs, on 05.01.2022 at 12:58 Hrs and on 14.01.2022 at 13:01 Hrs
 - Total Power failure at 400 kV Dikchu and 400 kV Teesta III S/s on 16.01.2022 at 14:01 Hrs
 - Disturbance at 220 kV Biharsharif (BSPTCL) S/s on 17.01.2022 at 13:13 Hrs
 - Disturbance at 220 kV Tenughat (TVNL) S/s on 25.01.2022 at 10:24 Hrs
- 3) Repeated Tripping of Chaibasa-Chaibasa (JUSNL) Circuit-I.
- 4) Follow up of decision of previous Protection Coordination sub-Committee Meetings .
- 5) Single line tripping incidences of transmission elements for January 2022 as enclosed at Annexure-1

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 डाटाबेस प्रबंधन प्रणाली में लागू ट्रिपिंग घटना सूचना प्रणाली का विवरण ऑन-लाइन में अपलोड करें 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 tripping well in advance for meaningful analysis. 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.)

बैठक में आपकी उपस्थिति महत्वपूर्ण है।

Your participation in the meeting is highly solicited.

भवदीय / Yours faithfully,

Sd/-

(पी.पी.जेना / P.P.Jena)

Executive Engineer (PS)

कार्यपालक अभियंता (पी.एस)

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LIST OF ADDRESSES:

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Chief Engineer(System Operation), SLDC , BSPTCL, Patna-800021	
Chief Engineer (SLDC) Damodar Valley Corporation, GOMD-I Premises, P.O.- DaneshSeikh Lane, Howrah- 711109	Chief Engineer (CTC) Damodar Valley Corporation, P.O. Maithon Dam, Dist. Dhanbad, Jharkhand-828207
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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, LA 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., Loknaya Jai Prakash Bhawan, (2 nd Floor), DakBungalow 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	Shri A.K. Nayak/Shri Sumit S Ghosh Maithon Power Limited, Maithon Office, MA 5 Gogna, Dist. Dhanbad, Jharkhand State, PIN-828207
General Manager (OS), ER-II Power Grid Corporation of India Ltd., J-I-15, Block-EP, Sector-V, Salt Lake, Kolkata-91	Head –Regulatory and contracts, IndiGrid Limited , 247 Embassy, Office No 107, ‘B’ Wing, Hindustan Co. Bus Stop, Gandhi Nagar, L.B.S. Road, Vikhroli West, Mumbai – 400 079. Ph : +91 845509 96408
General Manager (P&O), PTC Ltd., Kanchanjunga Bldg., 18, Barakhamba Road, New Delhi-110001	
Managing Director, Bhutan Power Corporation Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corpn. P.O. Box-1351, Thimpu, Bhutan.
Associate Director (Commercial and Regulatory) Darbhanga-Motihari Transmission Company Limited	Shri Brajesh Kumar Pande, Plant Head, JITPL. (FAX:011-26139256-65)

(DMTCL),503,Windsor, Off CST Road, Kalina, Santacruz(E), Mumbai-400098	
Shri D. P. Bhagava, Chief Consultant (O&M), TeestaUrja Limited, New Delhi (FAX:011-46529744)	Director (GM Division), Central Electricity Authority SewaBhawan, R. K. Puram, New Delhi-110066
Director (NPC), CEA, NRPC Building, KatwariaSarai, 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
President , TPTL, BhikajiCama Place, New Delhi , 110066	

List of important transmission lines in ER which tripped in January-2022

Sl. No.	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATION TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason	Fault Clearance time in msec	Remarks	DR Configuration Discrepancy	DR/EL RECEIVED FROM LOCAL	DR/EL RECEIVED FROM REMOTE
1	315 MVA ICT-3 AT BIHARSHARIF	01-01-2022	16:27	01-01-2022	21:02	Master Trip relay operated		No fault	NA	OSR relay operated. Finding maybe shared by PG		Yes	NA
2	400 KV RANCHI-SIPAT-2	02-01-2022	02:24	02-01-2022	04:23	Spurious tripping		No fault	NA	Details maybe shared by PG ER-1		No	No
3	400 KV KISHANGANJ-RANGPO-1	03-01-2022	01:31	03-01-2022	06:56	Kishanganj: DT received	Rangpo: O/V	O/V	NA	O/V in Y_ph at Rangpo. DT received at Kishanganj		Yes	Yes
4	400 KV TEESTA 3-DIKCHU -1	04-01-2022	13:14	04-01-2022	16:03	Teesta 3: DT received	Dikchu: O/V St.-1	O/V	NA	O/V in Y_ph		Yes	Yes
5	400 KV PPS-BIDHANNAGAR-1	04-01-2022	23:34	05-01-2022	00:07	PPSP: B_N, 112.5 km	Bidhannagar: B_N, 63.95 km, 4.985 kA	B-Earth	100	A/r not in service as per OEM advise		No	Yes
6	400 KV BIHARSHARIF-PUSAULI-2	05-01-2022	02:08			Biharsharif: B_N, 141.9 km, 3 kA		B-Earth	100	A/r didn't operate at both ends. Three phase tripping for single phase fault		Yes	Yes
7	400 KV TEESTA 3-DIKCHU -1	05-01-2022	12:58	05-01-2022	16:41	Teesta 3: DT received	Dikchu: O/V St.-1	O/V	NA	Tripped on O/V		Yes	Yes
8	400 KV MERAMUNDALI-MENDHASAL-1	05-01-2022	13:00	05-01-2022	13:25	Meramundali: B_N, 80 km, 4.5 kA	Mendhasal: B_N, 34.9 km, 4.4 kA, A/r successful	B-Earth	100	A/r didn't operate. Three phase tripping for single phase fault at Meramundali.		Yes	Yes
9	400 KV JEYPORE-GAZUWAKA-2	05-01-2022	13:37	05-01-2022	15:54	Jeyapore: R_N, 10.2 km, 7 kA	Gazuwaka: R_N, 172.2 km, 1.48 kA	R-Earth	100	A/r was in s/d		No	NA
10	400 KV RANCHI-ROURKELA-1	06-01-2022	06:40			Ranchi: R-B, 2.25 km, Ir: 29.48 kA, Ib: 29.95 kA	Rourkela: R_B, 139.6 km, Ir: 3.613 kA, Ib: 3.085 kA	R-B	100	Phase-to-phase fault		Yes	No
11	220 KV SUBHASHGRAM-SUBHASHGRAM-2	10-01-2022	02:55	10-01-2022	04:02	Didn't trip at PG end	Tripped from WB end due to bus tripping	Y-Earth	100	Bus fault at Subhashgram (WB) in Y_ph		No	Yes
12	220 KV PATNA-KHAGAUL-1	10-01-2022	10:35	10-01-2022	11:05	Didn't trip	Khagaul: Zone-3	No fault	NA	VT failed at Khagaul. All three phase voltage became zero		NA	Yes
13	220 KV DALTONGANJ-CHATRA-1	11-01-2022	16:01	11-01-2022	16:45	Daltonganj: R_N, 146.5 km, 1.14 kA	Chatra: R_N, 43.718 km, 1.02 kA	R-Earth	100	A/r didn't operate at Chatra. DR channels not configured		Yes	Yes
14	400 KV ALIPURDUAR-BONGAIGAON-1	12-01-2022	05:10	12-01-2022	09:23	Alipurduar: O/V St. 1 in R_ph	Bongaigaon: DT received	No fault	NA	Voltage at Alipurduar was around 427 kV. PG may explain.		No	No
15	400 KV BINAGURI-RANGPO-1	12-01-2022	12:54	12-01-2022	13:23	Binaguri: Y_N, A/r successful	Rangpo: Y_B, Ib: 2 kA, Ib: 5 kA	Y_B	100	Binaguri saw fault in Y_ph only and A/r operated successfully. However, all three phases of tie bay tripped.		Yes	Yes
16	400 KV BINAGURI-RANGPO-2	12-01-2022	12:54	12-01-2022	13:58		Rangpo: Y_B, 64.3 km, Ib: 1.8 kA, Ib: 2.7 kA	Y_B	100	Y_ph of Tie CB didn't open at Binaguri.		Yes	Yes
17	400 KV BARH-PATNA-1	12-01-2022	14:45	12-01-2022	15:11	Barh: Y_N, 66.2 km		Y-Earth	100	A/r successful at Patna only. However, all three phases of tie CB tripped.		No	Yes
18	400 KV PATNA-BALIA-1	12-01-2022	14:45	12-01-2022	15:18	Patna: Didn't trip	Balia: Zone-3	No fault	NA	Tripped from Balia in Zone-3 for fault in 400 kV Barh-Patna-1		NA	NA
19	400 KV NEW PURNEA-MUZAFFARPUR-1	12-01-2022	19:53	12-01-2022	20:06	New Purnea: Y_N	Muzaffarpur: Y_N, A/r successful	Y-Earth	100	A/r successful at Muzaffarpur, however, A/r dead time of tie CB at Muzaffarpur maybe checked (closed after 2.1 seconds). Zone-2 fault from New Purnea, however carrier signal not received, hence all three phases tripped.		Yes	Yes
20	220 KV CHAIBASA-CHAIBASA (JUSNL)-1	13-01-2022	22:50	14-01-2022	23:59	Chaibasa (PG): Didn't trip	-	No fault	NA	CT SF6 operated. Loose contact in C&R panel		NA	Yes
21	220 KV MAITHON-DHANBAD-1	14-01-2022	11:55	14-01-2022	12:14	Maithon: Didn't trip	Dhanbad: B_N	B-Earth	100	DR of Dhanbad end not available. Finding maybe shared		NA	No

Sl. No.	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATION TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason	Fault Clearance time in msec	Remarks	DR Configuration Discrepancy	DR/EL RECEIVED FROM LOCAL	DR/EL RECEIVED FROM REMOTE
22	220 KV MATHON-DHANBAD-2	14-01-2022	11:55	16-01-2022	18:05	Maithon: B_N, 35.57 km, 4 kA		B-Earth	100	A/r successful at Maithon. However, tripped again in reclaim time after 200 msec. Y_ph and B_ph opened for single phase fault at Dhanbad. A/r operated but failed. Broken conductor appeared. Findings maybe shared.		Yes	Yes
23	400 KV TEESTA 3-DIKCHU -1	14-01-2022	13:01	14-01-2022	15:26	Teesta 3: DT received	Dikchu: O/V St.-1	O/V	NA	Tripped on O/V		Yes	Yes
24	400 KV JHARSUGUDA-STERLITE-2	14-01-2022	21:17	14-01-2022	22:37	Didn't trip	Sterlite: Y_N, 86.6 km, Zone-3, 3.42 kA	No fault	NA	As per PMU fault was in one of the line from Jharsuguda where A/r operated successfully. Details maybe shared.		NA	No
25	400 KV MUZAFFARPUR-GORAKHPUR-2	15-01-2022	12:00	15-01-2022	17:26	Muzaffarpur: R_Y, 125.47 km		R_Y-Earth	100	Phase-to-phase fault		Yes	NA
26	400 KV TEESTA 3-KISHANGANJ-1	16-01-2022	14:01	16-01-2022	15:58	Teesta 3: O/V St.1	Kishanganj: DT received	O/V	NA	Tripped on O/V		Yes	No
27	400 KV TEESTA 3-DIKCHU-1	16-01-2022	14:01	16-01-2022	17:49	Teesta 3: DT received	Dikchu: O/V St.-1	O/V	NA	Tripped on O/V		Yes	No
28	400 KV BIHARSHARIF-VARANASI-2	17-01-2022	15:54	17-01-2022	18:15	Biharsharif: R_Y, 50.75 km, Ir: 8.78 kA, ly: 8.68 kA		R_Y	100	Phase-to-phase fault		Yes	NA
29	220 KV CHANDIL-SANTALDIH (STPS)-1	18-01-2022	05:22	18-01-2022	05:44	Chandil: R_N, Zone-1, 89 km, 1.84 kA	SantalDIH: R_N, Zone-1, 19.58 km, 4.95 kA	R-Earth	100	A/r not in service. Three phase tripping for single phase fault.	DR timelength less at Chandil/	Yes	Yes
30	400 KV BIHARSHARIF-VARANASI-2	18-01-2022	05:28	18-01-2022	07:30	Biharsharif: R_N, Zone-1, 126.3 km, 3.14 kA		R-Earth	100	Phase-to-phase fault		Yes	NA
31	220 KV CHAIBASA-CHAIBASA (JUSNL)-1	19-01-2022	05:30	19-01-2022	07:34	Didn't trip	-	No fault	NA	CT SF6 operated. Loose contact in C&R panel		NA	Yes
32	220 KV CHANDIL-SANTALDIH (STPS)-1	21-01-2022	05:21	21-01-2022	05:45	Chandil: B_N, 88.2 km	SantalDIH: B_N, 19.5 km, 4.24 kA	B-Earth	100	A/r not in service. Three phase tripping for single phase fault.		Yes	Yes
33	400 KV DURGAPUR-SAGARDIGHI-1	24-01-2022	10:49	24-01-2022	21:56	Durgapur: Y_N, 95 km, 3.35 kA, SOTF	Line was out of service under voltage regulation	Y-Earth	100	SOTF at Durgapur, DT sent to remote end		Yes	NA
34	400 KV DARBHANGA -KISHANGANJ-2	25-01-2022	18:48	25-01-2022	20:02		DT received at Kishanganj	No fault	NA	B_ph voltage was available at Kishanganj. It seems B_ph breaker remained closed at Darbhanga. Details maybe shared.		No	Yes
35	220 KV CHUKHA-BIRPARA-1	26-01-2022	14:09	26-01-2022	14:52	Birpara: Y_B, 43.512 km, 5.38 kA	Chukha: Y_B, 25.52 km, 4.05 kA	Y_B	100	Phase-to-phase fault		NA	Yes
36	400 KV KHARAGPUR-KOLAGHAT-1	28-01-2022	16:50	28-01-2022	17:14	Kharagpur: DT received	Kolaghat: Didn't trip	No fault	NA	No fault observed in PMU. Details maybe shared.		NA	No
37	220 KV CHAIBASA-CHAIBASA (JUSNL)-1	29-01-2022	07:55	29-01-2022	09:35			No fault	NA	CT SF6 operated. Loose contact in C&R panel		NA	No
38	220 KV CHAIBASA-CHAIBASA (JUSNL)-1	30-01-2022	06:10	30-01-2022	10:44	Chaibasa (PG): Didn't trip		No fault	NA	CT SF6 operated. Loose contact in C&R panel		NA	No
39	220 KV NEW PURNEA-MADHEPURA-2	30-01-2022	20:38	30-01-2022	21:38		UFR relay operated	No fault	NA	UFR relay operated at Madhepura. To be reviewed immediately.		NA	Yes
40	220 KV BARIPADA-BALASORE-2	31-01-2022	10:36	31-01-2022	11:29	Baripada: DT received	Balasore: Didn't trip	No fault	NA	No fault observed in PMU. Details maybe shared.		No	NA