



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

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Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

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सं./NO. पू.क्षे.वि.स./PROTECTION/2023/1396

दिनांक /DATE: 03.02.2023

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

विषय : पू.क्षे.वि.स. की 123 वीं संरक्षण समन्वय उप-समिति (पीसीसी) की बैठक हेतु सूचना।

Sub: Notice for 123rd Protection Coordination sub-Committee (PCC) meeting of ERPC.

Sir/Madam,

Notice is hereby given that 123rd PCC meeting of ERPC will be held in physical mode on 21st February 2023 (Tuesday) at 11:00 hrs at ERPC Conference Hall, Kolkata.

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 122nd Protection sub-Committee Meeting of ERPC
- 2) Analysis of following grid disturbances of January 2023:
 - Disturbance at 220 kV Bantala (WBSETCL) S/s on 04.01.23 at 04:42 hrs and at 05:42 hrs.
 - Disturbance at 220 kV Ramchandrapur S/s(JUSNL) on 04.01.23 at 13:41 hrs and at 14:24 hrs
- 3) Follow up of decision of previous Protection Coordination sub-Committee Meetings.
- 4) Single line tripping incidences of transmission elements for January 2023 as enclosed at Annexure-1.

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.)

Your participation in the meeting is highly solicited.

भवदीय / Yours faithfully,

P.P. Jena
03.02.23

(पी.पी.जेना / P.P.Jena)
Executive Engineer (PS)
कार्यपालक अभियंता(पी.एस)

Annexure 1

List of important transmission lines in ER which tripped in January-2023

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 RECIVED FROM LOCAL END	DR/EL RECIVED FROM REMOTE END	UTILITY RESPONSE
1	400 KV BARH-PATNA-1	01-01-2023	02:48	01-01-2023	04:24	-	Patna: DT received	No fault	NA	After 200 msec of fault in Barh-Kahalgaon, tie bay LBB operated.		Yes	Yes	
2	400 KV BARH-KAHALGAON (KHSTPP)-1	01-01-2023	02:48	01-01-2023	04:33	Barh: Y_N, Zone-1, 10.28 km, 19.59 kA	Kahalgaon: DT received	Y-Earth	100	After 200 msec, LBB of tie bay operated. LBB logic was rectified. Barh may explain.		Yes	No	
3	400 KV BARH-PATNA-1	01-01-2023	04:38	01-01-2023	06:02	-	Patna: DT received	No fault	NA	After 200 msec of fault in Barh-Kahalgaon, tie bay LBB operated.		Yes	Yes	

4	400 KV BARH-KAHALGAON (KHSTPP)-1	01-01-2023	04:38	01-01-2023	19:04	Barh: Y_N, Zone-1, 10.08 km, 20.33 kA	Kahalgao: DT received	Y-Earth	100	After 200 msec, LBB of tie bay operated. LBB logic was rectified. Barh may explain.		Yes	No	
5	400 KV BIHARSHARIF-VARANASI-2	01-01-2023	06:26	01-01-2023	08:05	Biharsharif: B_N, 112.5 km, 3.345 kA	Varanasi: B_N, 190.90 km, 2.127 kA	B-Earth	100	A/r failed after 1 second		Yes	NA	
6	220 KV SUBHASHGRAM-BARUIPUR-1	01-01-2023	17:04	02-01-2023	07:24	Subhashgram: R_Y, 1.2 km, Ir: 20.4 kA, Iy: 20.36 kA	Baruipur: R_Y, Zone-2, 29.35 km, Ir: 5.45 kA, Iy: 5.6 kA	R-Y	100	Phase to phase fault		No	Yes	
7	400 KV BIHARSHARIF-VARANASI-2	01-01-2023	23:25	02-01-2023	16:18	Biharsharif: B_N, 36.59 km, 7.433 kA	-	B-Earth	100	A/r failed after 1 second		Yes	NA	
8	400 KV MUZAFFARPUR-GORAKHPUR-1	02-01-2023	00:20	02-01-2023	11:17	Muzaffarpur: Y_N, 261 km (100%), 1.732 kA	Gorakhpur: Y_N, 2 km, 16 kA	Y-Earth	100	A/r failed after 1 second		Yes	NA	
9	400 KV SASARAM-ALLAHABAD-1	02-01-2023	00:40	02-01-2023	10:48	Sasaram: Y_N, 22.6 km, 3.5 kA		Y-Earth	100	A/r failed after 1 second		Yes	NA	
10	400 KV BIHARSHARIF-VARANASI-1	02-01-2023	00:46	02-01-2023	06:26	Biharsharif: R_N, 52.31 km, 6.036 km		R-Earth	100	A/r failed after 1 second		Yes	NA	

11	400 KV BIHARSHARIF- SASARAM-2	02-01-2023	01:18	02-01-2023	02:06	Biharsharif: Tie bay LBB operated. 400 kV Biharsharif- Balialia-2 is in same dia	Sasaram: DT received	No fault	NA	During A/r of 400 kV Biharsharif-Balialia-2, tie bay LBB operated at Biharsharif. PG ER-1 may explain.		Yes	Yes	
12	400 KV BIHARSHARIF- BALIALIA-2	02-01-2023	01:18	02-01-2023	07:53	Biharsharif: Y_N, 0.5 km, 20.38 kA		Y- Earth	100	Fault in Y_ph during A/r		Yes	NA	
13	400 KV BIHARSHARIF- KODERMA-2	02-01-2023	02:18	02-01-2023	02:45	Biharsharif: Y_N, 17.9 km, 7.3 kA	Koderma: Y_N, 18.8 km, 6.6 kA	Y- Earth	100	A/r successful from Biharsharif only. Other two phase tripped at Koderma after 3.5 seconds. PD time may be reviewed by DVC.		Yes	Yes	
14	400 KV BIHARSHARIF- KODERMA-1	02-01-2023	02:34	02-01-2023	18:11		Koderma: Y_N, 96.7 km, 6.92 kA	Y- Earth	100	Three phase tripping at Biharsharif, A/r successful from Koderma.		Yes	Yes	

15	400 KV BIHARSHARIF- KODERMA-2	02-01-2023	03:45	02-01-2023	05:08		Koderma: Y_N, 100.75 km, 4.32 kA	Y-Earth	100	A/r successful from Biharsharif only. Other two phase tripped at Koderma after 3.5 seconds. PD time may be reviewed by DVC.		Yes	Yes	
16	400 KV NEW PURNEA- FARAKKA-1	02-01-2023	04:36	03-01-2023	14:28	New purnea: R_B, 37.45 km, Ir: 10.2 kA, Ib: 10.12 kA	Farakka: R_B, 130 km, Ir: 4.45 kA, Ib: 4.25 kA	R-B	100	Phase to phase fault		Yes	Yes	
17	400 KV NEW PURNEA- MUZAFFARPUR-1	02-01-2023	08:00	03-01-2023	16:18	New Purnea: Y_N, 169 km, 2.04 kA	Muzaffarpur: Y_N, 57.29 km, 6.346 kA	Y-Earth	100	A/r failed after 1 second		No	Yes	
18	400 KV ARAMBAG- BAKRESWAR-1	03-01-2023	05:18	03-01-2023	17:56	Arambag: R_N, 87.51 km, 4.71 kA	Bakreswar: R_N, 52.5 km, 4.31 kA	R-Earth	100	A/r failed after 1 second		Yes	No	
19	400 KV FARAKKA- RAJARHAT-1	03-01-2023	06:14	03-01-2023	07:41	Farakka: Y_N, 2 kA	Rajarhat: Y_N, 169 km, 2.46 kA	Y-Earth	100	A/r failed after 1 second		Yes	Yes	

20	220 KV RANCHI- RAMGARH-1	05-01-2023	02:35	05-01-2023	03:21	Ranchi: R_N, A/r successful	Ramgarh: R_N, 22.35 km	R- Earth	100	Three phase tripping at Ramgarh. A/r attempted but only 2 phase closed. DVC may explain.		Yes	Yes	
21	400 KV SASARAM- BRBCL-2	07-01-2023	02:58	08-01-2023	17:00	Sasaram: R_N, 51.35 km, 5.7 kA		R- Earth	100	A/r failed after 1 second		Yes	No	
22	400 KV BIHARSHARIF- VARANASI-1	07-01-2023	04:21	07-01-2023	21:45	Biharsharif: Y_N, 152.49 km, 2.79 kA		Y- Earth	100	A/r failed after 1 second		Yes	NA	
23	400 KV BIHARSHARIF- VARANASI-1	09-01-2023	06:13	09-01-2023	16:48	Biharsharif: Y_N, 148.8 km, 2.9 kA		Y- Earth	100	A/r failed after 1 second		Yes	NA	
24	400 KV BIHARSHARIF- VARANASI-2	10-01-2023	00:24	11-01-2023	00:19	Biharsharif: R_N, 172 km, 2.5 kA	Varanasi: R_N, 128 km, 3.5 kA	R- Earth	100	A/r failed after 1 second		Yes	NA	
25	400 KV BIHARSHARIF- VARANASI-1	10-01-2023	01:56	10-01-2023	22:23	Biharsharif: Y_N, 156 km, 2.6 kA		Y- Earth	100	A/r failed after 1 second		Yes	NA	
26	SASARAM- BRBCL-1	10-01-2023	02:46	10-01-2023	17:37	Sasaram: Y_N, 50.8 km, 6.4 kA	BRBCL: Y_N, 47 km, 4.07 kA	Y- Earth	100	A/r failed after 1 second		Yes	No	
27	400 KV SASARAM- DALTONGANJ-2	10-01-2023	03:24	10-01-2023	19:40	Sasaram: Y_N, 7.54 km, 13.15 kA		Y- Earth	100	A/r failed after 1 second		Yes	No	
28	400 KV BIHARSHARIF- KODERMA-2	10-01-2023	05:57	10-01-2023	06:29	Biharsharif: Y_N, 19.2 km, 7.11 kA, A/r successful	Koderma: Y_N, 85.17 km, 4.45 kA	Y- Earth	100	A/r successful from Biharsharif only. Other two phase tripped at Koderma after 3.5 seconds. PD time may be reviewed by DVC.		Yes	Yes	

29	400 KV BIHARSHARIF- KODERMA-2	11-01-2023	03:50	11-01-2023	04:31	Biharsharif: Y_N, 18.18 km, 8.66 kA, A/r successful	Koderma: Y_N, 85.66 km, 4.37 kA	Y- Earth	100	A/r successful from Biharsharif only. Other two phase tripped at Koderma after 3.5 seconds. PD time may be reviewed by DVC.		Yes	Yes	
30	765 KV GAYA- VARANASI-2	11-01-2023	04:31	11-01-2023	05:32	Gaya: R_N, 236.7 km, 3.6 kA	Varanasi: A/r successful	R- Earth	100	Three phase tripping for single phase fault. PG ER-1 may explain.		Yes	NA	
31	400 KV BIHARSHARIF- KODERMA-2	11-01-2023	04:49	11-01-2023	19:54	Biharsharif: Y_N, 18.79 km, 9.52 kA	Koderma: Y_N, 74.4 km, 6.02 kA	Y- Earth	100	A/r failed after 1 second		Yes	Yes	
32	220 KV KARMNASHA- SAHUPURI-1	12-01-2023	05:14	12-01-2023	06:57	Karmnasha: Didn't trip	Sahupuri: R_N, 36.36 km, 3.211 kA	R- Earth	100	A/r couldn't be ascertained from PMU. BSPTCL may confirm.		No	NA	
33	400 KV NORTH KARNPURA- CHANDWA-1	12-01-2023	12:27	12-01-2023	13:03		Chandwa: DT received	No fault	NA	JUSNL/NTPC may explain		No	No	
34	220 KV MUZAFFARPUR- HAZIPUR-2	12-01-2023	13:04	12-01-2023	14:26	Muzaffarpur: DT received	Hazipur: Bus bar protection operated	No fault	NA	BSPTCL may explain		No	NA	

35	220 KV RANCHI- RAMGARH-1	12-01-2023	16:20	12-01-2023	16:35	Ranchi: DT received	Ramgarh: Didn't trip	No fault	NA	DVC may explain		Yes	NA	
36	400 KV NEW DUBURI- MERAMUNDALI-1	14-01-2023	05:06	14-01-2023	19:13	New Duburi: B_N, 30.6 km, 9.06 kA, A/r attempt unsuccessful	Meramundali: B_N, 59.3 km, 5.2 kA, A/r unsuccessful	B-Earth	100	A.r failed after 1 sec		Yes	Yes	
37	220 KV NEW PURNEA- KHAGARIA-1	14-01-2023	06:26	14-01-2023	07:51	New Purnea: B_N, 94.5 km, 2.35 kA	Khagaria: B_N, 4.98 km, 6.31 kA, A/r successful	B-Earth	350	Tripped in Zone-2 time from New Purnea. A/r successful from Khagaria.		Yes	Yes	
38	400 KV RANGPO- TEESTA 3-1	14-01-2023	16:51	15-01-2023	11:00	Rangpo: R_N, 38.06 km, 4.96 kA	Teesta 3: R_N, 15.24 km, 5.468 kA	R-Earth	100	A/r under shutdown for OPGW work		Yes	Yes	
39	220 KV RAJARHAT- BARASAT-1	15-01-2023	03:49	15-01-2023	07:49	Rajarhat: B_N, 3 km, 14.4 kA	Barasat: B_N, Zone-2, 16 km, 5 kA	B-Earth	100	Three phase tripping for single phase fault. DT received at Rajarhat after 150 msec. WBSETCL may explain.		Yes	Yes	
40	220 KV MUZAFFARPUR- HAZIPUR-2	15-01-2023	22:59	15-01-2023	23:21	Muzaffarpur: DT received	Hazipur: Didn't trip	No fault	NA	BSPTCL may explain		No	NA	
41	220 KV MUZAFFARPUR- HAZIPUR-2	15-01-2023	23:52	16-01-2023	18:39	Muzaffarpur: DT received	Hazipur: Didn't trip	No fault	NA	BSPTCL may explain		No	NA	

42	220 KV SANTALDIH- CHANDIL-1	18-01-2023	05:19	18-01-2023	11:53	Santaldih: R_N, 22.9 km	Chandil: R_N, 82 km, 1.09 kA	R- Earth	100	Other two phase at Chandil tripped after 200 msec. JUSNL/WBPDCL may explain.	No	Yes	
43	400 KV KOLAGHAT- KHARAGPUR-1	18-01-2023	07:10	18-01-2023	07:22	Tripped during diversion through TBC at Kolaghat		No fault	NA	WBPDCL may explain	No	Yes	
44	400 KV RANGPO- TEESTA 3-1	18-01-2023	14:45	18-01-2023	16:13	Rangpo: R_N, 42.77 km, 5.3 kA	Teesta 3: R_N, 9.15 km, 2.64 kA	R- Earth	100	A/r under shutdown for OPGW work	Yes	Yes	
45	220 KV JEYPORE- JAYNAGAR-1	19-01-2023	13:25	19-01-2023	13:58	Jeypore: Didn't trip	Jayanagar: DT received	No fault	NA	After bay swapping b/w Ckt- 1 & 2, necessary changes in carrier protection was not done. OPTCL may explain.	NA	No	
46	400 KV RANCHI- RAGHUNATHPU R-1	19-01-2023	16:19	19-01-2023	16:38	Ranchi: DT received	Raghunathpur: Didn't trip	No fault	NA	DVC may explain	Yes	NA	
47	400 KV SASARAM- ALLAHABAD-1	21-01-2023	00:15	21-01-2023	01:06	Sasaram: R_B, 101.4 km, Ir: 2.2 kA, Ib: 2.3 kA		R-B	100	Phase to phase fault	Yes	NA	
48	220 KV JODA- RAMCHANDRA PUR-1	22-01-2023	13:20	22-01-2023	14:35	Joda: R_N, 2.058 km, 5.745 kA	Ramchandrapur: R_N, Zone-2, 122 km, 1.35 kA	R- Earth	400	Tripped in Zone-2 time from Ramchandrapur.	No	Yes	

49	400 KV BARH-MOTIHARI-1	23-01-2023	02:25	23-01-2023	02:55		Motihari: R_Y, 8.9 km, Ir: 11.75 kA, Iy: 12.15 kA	R-Y	100	Phase to phase fault		Yes	Yes	
50	220 KV MUZAFFARPUR-HAZIPUR-2	23-01-2023	12:33	23-01-2023	13:53	Muzaffarpur: B_N, 35.2 km, 3.348 kA	Hazipur: B_N, 24.7 km, 3.11 kA	B-Earth	100	A/r couldn't be ascertained from PMU. PG ER-1/BSPTCL may explain.		No	No	
51	400 KV MERAMUNDALI-JSPL-1	25-01-2023	13:03	25-01-2023	15:06	Meramundali: B_N, 17.3 km, 11.88 kA		B-Earth	100	A/r attempt failed after 500 msec. A/r dead time may be reviewed.		Yes	No	
52	220 KV MAITHON-DHANBAD-2	26-01-2023	05:03	26-01-2023	05:59	Maithon: R_N, 37.25 km, 3.41 kA		R-Earth	100	A/r successful from Dhanbad. Three phase tripping at Maithon. PG ER-2 may explain.		Yes	Yes	
53	400 KV RANCHI-RAGHUNATHPU R-2	27-01-2023	17:16	27-01-2023	17:35	Ranchi: DT received	Raghunathpur: Didn't trip	No fault	NA	DVC may explain		Yes	Yes	

54	400 KV BIDHANNAGAR- NEW CHANDITALA-1	29-01-2023	12:14	29-01-2023	12:33		New Chanditala: R_N, 48 km, 6.1 kA	R- Earth	100	A/r failed after 800 msec		Yes	Yes	
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