



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/2016-17/

DATE: 04.08.2017

FAX MESSAGE NO. - 414

To,

As per list enclosed.

Sub: Notice for 58th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that **58th PCC meeting** of ERPC will be held on **29th August 2017 (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 57th 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 July, 2017:
 - Disturbance at 220 kV Lalmatia S/s on 03-07-17 at 18:32 hrs.
 - Disturbance at 400kV Patna on 03-07-17 at 18:53 hrs
 - Disturbance at 400 kV Bokaro S/s on 13-07-17 at 20:18 hrs
 - Disturbance at 220 kV Lalmatia S/s on 15-07-17 at 09:40 hrs
 - Repeated disturbances at 400kV Teesta-III, Dikchu and Rangpo on at 00:30 hrs on 16-07-2017, 15:56 hrs & 19:11 hrs on 24-07-2017, 19:11 hrs and 10:08 hrs on 27-07-2017.
 - Disturbance at 220 kV Tarkera S/s on 31-07-17 at 11:24 hrs
- 4) Multiple elements tripping without load loss:
 - Disturbance at 220 kV Dalkhola S/s on 19-07-17 at 10:50 hrs
- 5) Single line tripping incidences as per list 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.

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-
(A. K. Bandyopadhyaya)
Member Secretary

LIST OF ADDRESSES:

Chief Engineer, Trans (O&M) Bihar State Electricity Board, Vidyut Bhawan, Bailey Road, Patna-800021	Electrical Superintending Engineer (CRITL) Bihar State Electricity Board, 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, Trans (O&M) Jharkhand State Electricity Board Kusai Colony, Doranda, Ranchi-834002	Electrical Superintending Engineer (CLD) Jharkhand State Electricity Board, 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 Bungalow Chawk, Patna-800001	Director (GM Division) Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110066
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
General Manager, ERLDC, POSOCO 14, Golf Club Road, Tollygunge, Kolkata-700033	Manager (Electrical), Adhunik Power & Natural Resources Ltd. “Lansdowne Towers, Kolkata-700020 (Fax No. 033-2289 0285)
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 Corpn. P.O. Box-1351, Thimpu, Bhutan.
Darbhangha(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL)	Head Construction, ENCIL, Siliguri-7340051

Annexure-I

LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATION TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason
Fault Clearing time violating protection standard							
220KV FSTPP-LALMATIA-I	18/07/2017	9:50	18/07/2017	12:25	R_N,64.5km ,zone 1 from farakka		R-N FAULT
220KV CHANDIL-RANCHI-I	21/07/2017	3:56	21/07/2017	4:44	R_N,81 km from ranchi,2.31 kA current	5.78 KA ,13.27 km from chandil,Zone 1	R-N FAULT
220KV CHANDIL-STPS(WBSEB)-I	21/07/2017	3:56	21/07/2017	4:41	R_N		R-N FAULT
No autoreclose operation observed in PMU data							
400KV FARAKKA - KAHALGAON-IV	01/07/2017	23:09	01/07/2017	23:43	Did not trip	Y-ph, z1	Y-N FAULT
400KV RANCHI-ROURKELA-I	02/07/2017	16:32	02/07/2017	17:14	Ranchi: Y_N,F.D.26.7 KM, F.C. 8.6 kA	Rourkela: Y_N,F.D. 136 KM, F.C. 2.709 kA, A/R started but after 80 ms healthy phase breakers also opened	Y-N FAULT
765KV NEW RANCHI-DHARAMJAIGARH-II	05/07/2017	15:41	05/07/2017	18:45	Y-N, 29.91 KM, F/C=1.5 KA, DT received		Y-N FAULT
400KV BIHARSARIFF-MUZAFFARPUR-I	06/07/2017	14:12	06/07/2017	15:12	Y-N, F/C 9.7 kA, 14.44 km from MZF	Y-N, F/C 3.07 kA, 101 km from BSF	Y-N FAULT
220KV BARIPADA-BALASORE-II	07/07/2017	11:39	08/07/2017	19:52	R-N, Z-I, 9.2KM , 9.544KA From Baripada	R-N, 70KM from Balasore, 1.36KA	R-N FAULT
220KV TSTPP-MEERAMUNDALI-II	08/07/2017	16:09	08/07/2017	19:46	R-N, Z-I, IR=14.39KA		R-N FAULT
400KV PATNA-BALIA-II	09/07/2017	15:08	09/07/2017	15:49	Y-N,7.9 km ,F/C 13 KA		Y-N FAULT
400KV PATNA-BALIA-III	09/07/2017	15:16	09/07/2017	17:14	R-N, F/C 10.47 kA, 13.9 km from Patna	125 KM,3.44 KA,R_N from Balia	R-N FAULT
220KV DEHRI -GAYA-II	09/07/2017	15:33	09/07/2017	15:46	B-N, Z-I, 45.7 km from Dehri		B-N FAULT
220KV ARRAH-PUSAULI-S/C	10/07/2017	9:13	10/07/2017	9:51	R_N,26.84 km from Arrah,2.839 KA		R-N FAULT
400KV LAKHISARAI-KhSTPP-II	11/07/2017	8:15	11/07/2017	9:01	y_n,92.1 KM FROM KAHALGAON	Y_N,64.7 KM FROM LAKHISARAI,7.2 KA	Y-N FAULT
220KV BUDHIPADAR-RAIGARH-I	14/07/2017	12:40	14/07/2017	14:26	Y_B_N fault, Z1, 18KM From Budhipadar, Yph-11.04 KA, Bph-11.07 KA		Y-B-N FAULT
220KV JORETHANG-NEW MELLI-I	15/07/2017	16:59	15/07/2017	19:01	Y-B FAULT, 2.5KM,		Y-B-N FAULT
220KV BUDHIPADAR-KORBA-II	15/07/2017	21:31	15/07/2017	22:25	R_N,147.5 KM from Budhipadar, Zone II		R-N FAULT
220KV GAYA-SONENAGAR-II	20/07/2017	14:24	20/07/2017	15:15	54.1KM From Gaya, B_N, 2.8KA	49KM from Sonenagar,B_N	B-N FAULT
400KV KOLAGHAT-KHARAGPUR-II	28/07/2017	9:04	28/07/2017	9:16	Y_N, F.D. 61.71 KM, F.C. 3.56 kA (Kharagpur end)	Y_N, F.D. 30.52 KM, F.C.7.50 kA, A/R successful (Kolaghat end)	Y-N FAULT
220KV CHANDIL-RANCHI-I	29/07/2017	20:16	29/07/2017	20:55	R_N, Z_1 Ir=2.543KA	R_N, Ir=3.704KA, 40.14 KM From Ranchi	R-N FAULT
400KV PPSP-BIDHANNAGAR-I	30/07/2017	5:33	30/07/2017	5:47	R_N,Z-1,1.1 KA,151 KM FROM BIDHANNAGAR		R-N FAULT

Sasaram HVDC Tripping

HVDC PUSAULI	17/07/2017	5:41	17/07/2017	6:38	SYSTEM FAIL ALARM		SYSTEM FAILURE ALARM AT PUSAULI
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HVDC PUSAULI	17/07/2017	16:35	17/07/2017	17:34	SYSTEM FAIL ALARM		SYSTEM FAILURE ALARM AT PUSAULI
HVDC PUSAULI	20/07/2017	8:29	20/07/2017	9:25	SYSTEM FAIL ALARM		System alarm failure
HVDC PUSAULI	31/07/2017	18:34	31/07/2017	19:45	SYSTEM FAIL ALARM		System fail alarm

Miscellaneous: Tripping on DT, Spurious tripping , No reason furnished

400KV RANCHI-ROURKELA-I	05/07/2017	17:44	05/07/2017	18:05			SPURIOUS TRIPPING
400KV NEW PURNEA-KISHANGANJ-I	10/07/2017	5:36	10/07/2017	6:17	DT received	--	OPERATION OF GIS GAS COMPARTMENT ZONE TRIP (GS-8) DUE TO HEAVY RAIN AT KISHANGANJ
400KV NEW PURNEA-KISHANGANJ-I	10/07/2017	8:28	10/07/2017	10:33	DT received	--	OPERATION OF GIS GAS COMPARTMENT ZONE TRIP (GS-8) DUE TO HEAVY RAIN AT KISHANGANJ
400KV BAHARAMPUR-BHERAMARA-II	11/07/2017	14:18	11/07/2017	15:38	Did not trip		SPURIOUS TRIPPING
400KV BINAGURI-BONGAIGAON-I	13/07/2017	10:21	13/07/2017	10:37	DT received	Did not trip	DT RECEIVED AT BINAGURI
765KV JHARSUGUDA-DARLIPALI-I	17/07/2017	11:20	17/07/2017	19:35	DT Received		DT RECEIVED AT JHARSUGUDA
400KV JAMSHEDPUR-ANDAL-I	17/07/2017	16:50	17/07/2017	17:12	DT Received	Did not trip	DT RECEIVED AT JAMSHEDPUR
400KV FSTPP-BAHARAMPUR-SC	18/07/2017	19:40	18/07/2017	20:07	--	DT Received	DT RECEIVED AT BAHARAMPUR
400KV FSTPP-BAHARAMPUR-SC	18/07/2017	20:09	18/07/2017	22:06	--	DT Received	DT RECEIVED AT BAHARAMPUR
400KV BARIPADA-KEONJHAR-I	19/07/2017	13:15	19/07/2017	13:31	Did not trip		DT RECEIVED AT KEONJHAR
1500MVA ICT-2 AT JHARSUGUDA	23/07/2017	14:17	23/07/2017	17:05	SPURIOUS TRIPPING		
400KV GAYA-KODERMA-I	26/07/2017	16:33	26/07/2017	16:45	DT received at Gaya end.		DT received at Gaya end.
400KV MEERAMUNDALI-ANGUL-I	28/07/2017	11:03	28/07/2017	11:39	Opened from Meramundali end only. DT received.		DT received at Meramundali
400KV TSTPP-RENGALI-I	28/07/2017	22:11	28/07/2017	22:23	INADVERTENT TRIPPING WHILE DOING S/D WORK AT RENGALI MAIN BUS II	DT SENT TO TALCHER	DT SENT TO TALCHER WHILE DOING S/D WORK AT RENGALI MAIN BUS II
765KV DHARAMJAIGARH-JHARSUGUDA-I	29/07/2017	10:56	29/07/2017	11:18	Opened from Dharmjaygarh end. DT received.		DT received at Dharmjaygarh