



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/

DATE: 02.11.2016

FAX MESSAGE NO. 735

To,

As per list enclosed.

Sub: Notice for 49th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that **49th PCC meeting** of ERPC will be held on **29th November 2016 (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 48th 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 October, 2016:
 - Disturbance at 400/220 kV Meramundali (OPTCL) S/s on 05-10-16 at 18:10 hrs.
 - Multiple tripping at 132kV Purnea (PG) and 132kV Forbisgunj (BSPTCL) system on 08-10-16 at 03:33hrs & 09-10-16 at 00:05 hrs.
 - Disturbance at JUSNL system on 09-10-16 at 18:25 Hrs.
 - Disturbance at 220 kV Begusarai (BSPTCL) S/s on 21-10-16 at 12:12hrs
 - Disturbance at 220 kV Ramchandrapur (JUSNL) S/s on 22-10-16 at 19:16 hrs
- 4) Multiple elements tripping without load loss:
 - Disturbance at 400 kV Rangpo(PG) S/s on 05-10-16 at 14:25hrs.
 - Disturbance at 400 kV Meramundali (OPTCL) S/s on 10-10-16 at 16:35 Hrs.
 - Disturbance at 400kV Rourkela(PG) S/s on 28-10-16 at 16:39 hrs.
 - Single line tripping incidences 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 Sheikh 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 Bunglow 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, Sesa Sterlite Ltd. 1 st floor, City Mart Complex, Baramunda, Bhubaneswar-751012
Managing Director, Bhutan Power Corporation Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corpn. P.O. Box-1351, Thimpu, Bhutan.
SUPERINTENDENT ENGINEER, ERPC	ASSISTANT SECRETARY, ERPC

List of important transmission lines (220 kV & above) in ER which tripped in September'16

S.NO	LINE NAME	TRIP DATE	TRIP TIME	RESTORATION DATE	RESTORATION TIME	Reason	Fault Clearance time in msec	Relay Indication LOCAL END	Relay Indication REMOTE END	Auto Recloser status	DR/EL RECEIVED FROM LOCAL END	DR/EL RECEIVED FROM REMOTE END	Remarks
Fault clearing time is violating protection standard (As per PMU data)													
1	400KV BINAGURI-BONGAIGON-III	27.10.16	11:55	27.10.16	12:07	R-N FAULT	1100 ms	TEF, IR 1.5 kA	Yet to be received	--	Yes	No	
Multiple tripping at same time													
1	220 KV RAMCHANDRAPUR - CHANDIL	07.10.16	16:20	07.10.16	17:42	B-N FAULT	<100	B-N, Z-I, 4.73 KM from RCP, F/C 13.3 KA	B-N, Z-II, F/C 3.1 kA, 32.1 km from Chandil	No autoreclose operation observed in PMU data	Yes	Yes	315 MVA 400/220 KV ICT I & II at Ramchandrapur tripped at same time due to operation of master trip relay
Fault Not observed in PMU data													
1	220KV DALKHOLA - DALKHOLA-II	01.10.16	15:12	01.10.16	15:27	SPURIOUS TRIPPING	--	SPURIOUS BROKEN CONDUCTOR INDICATION AT PG END	Yet to be received	--	No	No	
2	400 KV RANCHI--SIPAT-II	03.10.16	13:03	03.10.16	15:13	DT RECEIVED AT BOTH END	--	DT received	DT received	--	No	Yes	First DT received at Sipat end and three phase breakers opened & then o/v occurred at Sipat end and DT was sent to Ranchi end
3	400KV BARH - GORAKHPUR-I	06.10.16	18:11	06.10.16	20:07	DT RECEIVED AT BARH	--	DT Received	Yet to be received	--	No	No	
4	400KV RANCHI - SIPAT-II	07.10.16	13:09	07.10.16	14:15	DT RECEIVED AT SIPAT END	--	Did not trip	DT received	--	--	Yes	
5	400KV BIHARSHARIFF-VARANASI-I	17.10.16	10:16	17.10.16	10:30	DT RECEIVED AT VARANASI	--	Did not trip	DT received	--	--	Yes	Line tripped from Varanasi end only on DT receipt
6	765KV NEW RANCHI - DHARAMJAYGARH-I	26.10.16	20:08	26.10.16	20:54	DT RECEIVED AT N.RACHI	--	DT Received	O/V	--	Yes	No	
No autorecloser operation observed in PMU data													
1	400KV BAKRESWAR-JEERAT	26.10.16	13:04	26.10.16	13:23	B-N FAULT	<100	Y-N, Z-I	Pole discrepancy	No autoreclose operation observed in PMU data	No	No	
2	400KV KOLAGHAT-KHARAGPUR	28.10.16	11:27	28.10.16	11:46	B-N FAULT	<100	B-N, Z-I, IB = 3.722 kA, 73.19 km from KTHPP, A/R successful from KTHPP end	B-N, Z-I, 5.95 kA, 17.27 km from KGP	No autoreclose operation observed in PMU data	Yes	No	A/R successful from KTHPP end