



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: 02.12.2016**

**FAX MESSAGE NO.**

To,

As per list enclosed.

**Sub: Notice for 50<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **50<sup>th</sup> PCC meeting** of ERPC will be held on **22<sup>nd</sup> December 2016 (Thursday)** 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 49<sup>th</sup> Protection sub-Committee Meeting of ERPC
- 2) Follow-up action on decision of previous Protection sub-Committee Meetings
- 3) Single line tripping incidences given at **Annexure-I**
- 4) Analysis of following grid disturbances of November 2016:
  - Disturbance at 220 kV MTPS (BSPTCL) on 01-11-16 at 10:58 hrs.
  - Disturbance at 220kV Bokaro (DVC) S/s on 20-11-16 at 07:50 hrs.
  - Disturbance at 400 kV Meramundali (OPTCL) S/s on 12-11-16 at 23:11 hrs

You are requested to kindly furnish the detailed disturbance report, containing the following information:

- Single line diagram of the affected area/region
- Pre fault conditions
- Tripping incident details with proper relay indication
- Disturbance record
- Analysis of the tripping incident
- Remedial measures taken
- Conclusion

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 (CLD) Damodar Valley Corporation, P.O. Maithon Dam, Dist. Dhanbad, Jharkhand-828207	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 <sup>th</sup> 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 <sup>rd</sup> 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 Jaiprakash Bhawan, (2 <sup>nd</sup> 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 <sup>st</sup> 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.
ASSISTANT SECRETARY, ERPC	

## Annexure-I

List of important transmission lines (220 kV & above) in ER which tripped in November'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 within 24 Hrs	DR/EL received after 24 Hrs	Remarks
Fault Not observed in PMU data													
1	<a href="#">400KV KOLAGHAT-CHAIBASA</a>	04.11.16	10:35	04.11.16	11:40	DT RECEIVED AT KTPP	--	DT received	Spurious tripping of NGR at Chaibasa end	--	<a href="#">Yes</a>	No	
2	<a href="#">220KV TENUGHAT-BIHARSARIF S/C</a>	07.11.16	14:11	07.11.16	14:44	HAND TRIPPED AT BIHARSHARIFF	--	Opened from BSF end	Hand tripped	--	<a href="#">Yes</a>	--	
3	<a href="#">400KV KHARAGPUR-CHAIBASA - II</a>	11.11.16	10:13	11.11.16	11:43	DUE TO SPURIOUS TRIPPING OF LINE REACTOR AT CHAIBASA	--	Information yet to be received	Mal-operation of NGR Bucholz relay due to wiring problem	--	No	<a href="#">Yes</a>	
4	<a href="#">400KV PURNEA-MALDA-II</a>	17.11.16	05:51	17.11.16	08:45	MAL-OPERATION BUCHHOLTZ OF NGR OF 50 MVAR LINE REACTOR	--	DT received	Mal-operation Buchholz relay	--	<a href="#">Yes</a>	<a href="#">Yes</a>	
5	<a href="#">400KV SASARAM-NAVINAGAR-I</a>	21.11.16	15:15	21.11.16	17:15	DT RECEIVED AT SASARAM	--	DT Received, Line was charged through MCB only	Information yet to be received	--	<a href="#">Yes</a>	No	
6	<a href="#">400 KV RAGHUNATHPUR-RACHI</a>	22.11.16	16:49	22.11.16	20:23	LBB OPERATED AT RTPS	--	LBB operated	DT received	--	No	<a href="#">Yes</a>	
7	<a href="#">220 KV BUDHIPADAR-KORBA-III</a>	29.11.16	08:53	29.11.16	10:26	DT RECEIVED AT BUDHIPADAR	--	Information yet to be received	Information yet to be received	--	No	No	
8	<a href="#">220KV_DALKHOLA(PG)-DALKHOLA(WB)-II</a>	30.11.16	17:44	30.11.16	18:25	DT RECEIVED AT PG END	--	DT received	Information yet to be received	--	No	No	
No autorecloser operation observed in PMU data													
1	<a href="#">400 KV KOLAGHAT-ARAMBAG</a>	03.11.16	17:09	03.11.16	17:29	R-N FAULT	<100	R-N, Z-I, 14.14 km from KTPP end, AR successful, Line did not trip	R-N, Z-I, VT fail, 47.4 km from Arambag	No autoreclose operation observed in PMU data	<a href="#">Yes</a>	No	A/R successful at KTPP end