



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: 02.01.2017**

**FAX MESSAGE NO. - 01**

To,

As per list enclosed.

**Sub: Notice for 51<sup>st</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **51<sup>st</sup> PCC meeting** of ERPC will be held on **16<sup>th</sup> January 2017 (Monday)** 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 50<sup>th</sup> 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 December, 2016:
  - Disturbance at 220 kV Theruvali (OPTCL) S/s on 15-12-16 at 07:22 hrs.
  - Disturbance at Budge Budge, CESC on 16-12-16 at 09:18 Hrs.
  - Disturbance at 400/220 kV Arambag (WBSETCL) S/s on 17-12-16 at 12:11hrs
- 4) Multiple elements tripping without load loss:
  - Disturbance at 400 kV Meramundali (OPTCL) S/s on 13-12-16 at 12:36 Hrs.
  - 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 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 <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, Vedanta Ltd. 1 <sup>st</sup> 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.
ASSISTANT SECRETARY, ERPC	

## List of important transmission lines (220 kV &amp; above) in ER which tripped in December'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 clearing time is violating protection standard (As per PMU data)													
1	<a href="#">132KV MUZAFFARPUR - DHALKABAR</a>	08.12.16	00:17	08.12.16	00:43	R-Y-B FAULT	800 ms approx	R-Y-B, Z-III	Information yet to be received	No autoreclose operation observed in PMU data	No	No	
2	<a href="#">220 KV BIDHANNAGAR - DPL - I</a>	13.12.16	07:25	13.12.16	09:18	B-N FAULT	350 ms approx	B-N, Z-II, 9.4 km from Bidhannagar	D/P, Z-I, 1.2 km from DPL, A/R successful	--	No	<a href="#">Yes</a>	No carrier protection scheme is available for this line
3	<a href="#">220 KV BOLANGIR - SADAIPALLY</a>	29.12.16	00:19	29.12.16	07:13	R-N FAULT	350 ms approx	Did not trip from PG end	Information yet to be received	No autoreclose operation observed in PMU data	No	No	LA failure of transformer at Sadaipally
4	<a href="#">220 KV SASARAM-SAHUPURI</a>	31.12.16	20:58	31.12.16	23:48	R-Y-B FAULT	600 ms approx	Information yet to be received	Information yet to be received	No autoreclose operation observed in PMU data	No	No	
Multiple tripping at same time													
1	<a href="#">220KV CHANDIL-SANTALDIH</a>	01.12.16	02:10	01.12.16	02:59	R-N FAULT	<100	R-N, O/C, I>2, 1.21 kA	No tripping	No autoreclose operation observed in PMU data	<a href="#">Yes</a>	--	
2	<a href="#">220KV CHANDIL-RAMCHANDRAPUR</a>			01.12.16	02:54	R-N FAULT	<100	R-N, O/C, 7.11 km from Chandil, 5.55 kA F/C	R-N, Z-I, DT received	No autoreclose operation observed in PMU data	<a href="#">Yes</a>	<a href="#">Yes</a>	
3	<a href="#">220KV MERAMUNDALI - TTPS-I</a>	07.12.16	21:19	07.12.16	22:22	Y-N FAULT	<100	Information yet to be received	Information yet to be received	No autoreclose operation observed in PMU data	No	No	Failure of Y phase LA at LV side of 400/220 kV ICT - II at Meramundali
4	<a href="#">220KV MERAMUNDALI - TTPS-II</a>			07.12.16	22:24		<100	Information yet to be received	Information yet to be received	No autoreclose operation observed in PMU data	No	No	
5	<a href="#">220KV MERAMUNDALI - BHANJANAGAR-II</a>			07.12.16	22:25		<100	Information yet to be received	Information yet to be received	No autoreclose operation observed in PMU data	No	No	
Fault Not observed in PMU data													
1	<a href="#">400KV BARH - KhSTPP-I</a>	07.12.16	03:16	08.12.16	18:25	DT RECEIVED AT BARH	--	DT received	TEED operated at Kahalgaon	--	No	<a href="#">Yes</a>	
2	<a href="#">400 KV MERAMUNDALI-TALCHER</a>	09.12.16	15:50	09.12.16	17:08	SPURIOUS TRIPPING	--	Did not trip	Information yet to be received	--	No	No	
3	<a href="#">400 KV GAYA-VARANASI-I</a>	21.12.16	15:33	21.12.16	17:03	SPURIOUS TRIPPING	--	Information yet to be received	Information yet to be received	--	No	No	Mal-operation of contact multiplication relay of main bay at Gaya
4	<a href="#">400KV BIHARSHARIFF-KODERMA-II</a>	22.12.16	15:12	22.12.16	15:35	DT RECEIVED AT BIHARSHARIFF	--	DT received	Information yet to be received	--	<a href="#">Yes</a>	No	
5	<a href="#">220 KV KORBA-BUDHIPADAR-II</a>	23.12.16	12:40	23.12.16	13:17	SPURIOUS TRIPPING	--	Information yet to be received	Did not trip	--	No	No	
No autorecloser operation observed in PMU data													
1	<a href="#">400 KV BIHARSARIFF - VARNASI - II</a>	05.12.16	06:51	05.12.16	08:25	B-N FAULT	<100	Information yet to be received	Information yet to be received	No autoreclose operation observed in PMU data	No	No	No autoreclose operation observed in PMU data
2	<a href="#">400 KV BIHARSHARIFF - KODERMA - I</a>	06.12.16	02:33	06.12.16	02:56	Y-N FAULT	<100	Information yet to be received	Information yet to be received	No autoreclose operation observed in PMU data	No	No	No autoreclose operation observed in PMU data
3	<a href="#">400 KV BARH-PATNA-IV</a>	08.12.16	21:54	09.12.16	18:31	R-N FAULT	<100	Information yet to be received	Information yet to be received	No autoreclose operation observed in PMU data	No	No	No autoreclose operation observed in PMU data
4	<a href="#">400 KV BARH-PATNA-III</a>	11.12.16	04:11	11.12.16	05:06	Y-N FAULT	<100	Y-N, 60 km from Barh	Information yet to be received	No autoreclose operation observed in PMU data	No	No	No autoreclose operation observed in PMU data