



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



**Eastern Regional Power Committee**  
14, गोल्फ क्लब रोड, टालीगंज, कोलकाता-700033  
14 Golf Club Road, Tollygunj, Kolkata-700033

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**NO. ERPC/PROTECTION/2016-17/**

**DATE: 06.10.2017**

**FAX MESSAGE NO. - 520**

To,

As per list enclosed.

**Sub: Notice for 60<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **60<sup>th</sup> PCC meeting** of ERPC will be held on **24<sup>th</sup> October 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 59<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 September, 2017:
  - Disturbance at 220 kV Motipur S/s on 05-09-17 at 10:17 hrs.
  - Disturbances at 220kV Madhepura on 06-09-17 at 09:52 hrs and 17-09-2017 at 18:13 hrs
  - Disturbance at 220 kV Hazipur on 07-09-17 at 18:57 hrs
  - Disturbance at 132 kV Lakhisarai S/s on 09-09-17 at 10:42 hrs
  - Disturbance at 400 kV Arambagh S/s on 09-09-17 at 13:47 hrs
  - Disturbance at 400 kV Patna S/s on 15-09-17 at 19:25 hrs
  - Disturbance at 220 kV Chuka S/s on 24-09-17 at 00:33 hrs
  - Disturbance at 220 kV CTPS B S/s on 26-09-17 at 13:25 hrs
  - Disturbance at 220 kV Siliguri S/s on 16-09-17 at 01:27 hrs
- 4) 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. 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:8185](http://www.erpc-protectiondb.in:8185).

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., Loknayak Jaiprakash Bhawan, (2 <sup>nd</sup> 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 <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 Corprn. P.O. Box-1351, Thimpu, Bhutan.
Darbhangha(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL)	Head Construction, ENCIL, Siliguri-7340051
Shri D. P. Bhagava, Chief Consultant (O&M), Teesta Urja Limited, New Delhi (FAX:011-46529744)	Shri Brajesh Kumar Pande, Plant Head, JITPL. (FAX:011-26139256-65)

## Annexure-I

SI 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	Auto Recloser status
<b>Fault Clearing time violating protection standard</b>										
1	<a href="#">220KV SUBHASGRAM(PG)-BANTALA-I</a>	04/09/2017	2:00	04/09/2017	3:12	Z2, RN,6.189KA, 15.60KM From Subhashgram	Tripped from Subashgram end only	R-N Fault	300 msec	
2	<a href="#">400KV ALIPURDUAR-BONGAIGAON-II</a>	15/09/2017	9:18	15/09/2017	9:46	R-N FAULT	R-N FAULT, 10.69 KM, 3.9 KA	R-N FAULT	800 msec	
3	<a href="#">220KV STPS(WBSEB)-CHANDIL-I</a>	17/09/2017	12:09	17/09/2017	19:38	Y-B-N, Z-1	Y-b ph, z2, 99km, 1.5 kA	Y-B-N FAULT	1300 msec	
4	<a href="#">132KV KhSTPP-SABOUR-I</a>	19/09/2017	9:25	19/09/2017	13:00	B-N , Z2		B-N Fault	400 msec	
<b>No autoreclose operation observed in PMU data</b>										
5	<a href="#">400KV KOLAGHAT-KHARAGPUR-II</a>	01/09/2017	11:10	01/09/2017	12:03	Z1,Y-ph, 88.5km, I fault=4.53KA	Z1,Y-ph, 14.31km,I fault=8.084KA	Y-N Fault	<100	No Auto-reclose operation found in PMU
6	<a href="#">220KV BUDHIPADAR-RAIGARH-I</a>	03/09/2017	14:40	03/09/2017	15:40	B_N, 12.2 KM, Ib=4.24 KA	1.08 KA,B_N	B-N Fault	< 100	No Auto-reclose operation found in PMU
7	<a href="#">220KV MADHEPURA-NEW PURNEA-I</a>	05/09/2017	16:34	05/09/2017	17:15	B_N, F.D. 57.6 KM, F.C. 1.09 kA	B_N,F.D. 34.48 KM, F.C. 3.99 kA	B-N Fault	< 100	No Auto-reclose operation found in PMU
8	<a href="#">220KV JODA-RAMCHANDRAPUR-SC</a>	06/09/2017	12:32	06/09/2017	12:59	Y_N,F.C. 3.32 kA, F.D. 18.69 KM		Y-N Fault	< 100	No Auto-reclose operation found in PMU
9	<a href="#">220KV BIDHANNAGAR-WARIA-II</a>	07/09/2017	12:38	07/09/2017	13:12	B_N,F.C. 4.57 kA, F.D. 13.21 KM	B_N, Zone I	B-N Fault	< 100	No Auto-reclose operation found in PMU
10	<a href="#">220KV MAITHON-DHANBAD-II</a>	07/09/2017	15:02	07/09/2017	15:55	YN,4.847KA, 32.02 KM	YN, 4.64KA, 4.64 KM	Y-N Fault	< 100	No Auto-reclose operation found in PMU
11	<a href="#">400KV BINAGURI-ALIPURDUAR-I</a>	08/09/2017	16:47	08/09/2017	17:05	B-N ,59 KM, 3.2 KA	B-N, 74 KM ,2.24 KA, A/R SUCCESSFUL	B-N Fault	< 100	No Auto-reclose operation found in PMU
12	<a href="#">220KV ALIPURDUAR-SALAKATI-I</a>	08/09/2017	23:23	09/09/2017	0:00	Y_N, Z II, 100.6 KM, 1.394 kA	Y_N, 3.495 kA, F.C 9.894 kA;A/R successful	Y-N Fault	< 100	No Auto-reclose operation found in PMU
13	<a href="#">400KV MENDHASAL-PANDIABILI-I</a>	12/09/2017	14:58	12/09/2017	15:47	Y_N,F.D. 21.7 KM, F.C. 7.02 kA	Y_N, F.D. 5 KM, F.C. 5.7 kA (A/R successful )	Y-N Fault	< 100	No Auto-reclose operation found in PMU
14	<a href="#">400KV BARIPADA-TISCO-SC</a>	12/09/2017	16:47	12/09/2017	17:32	R_N Fault,F.C. 7KM, F.D. 9.35 kA	A/R successful	R-N Fault	< 100	No Auto-reclose operation found in PMU
15	<a href="#">400KV MAITHON-RAGHUNATHPUR-I</a>	12/09/2017	16:59	12/09/2017	17:38	B_N		B-N FAULT	< 100	No Auto-reclose operation found in PMU
16	<a href="#">220KV ALIPURDUAR-SALAKATI-II</a>	13/09/2017	18:40	13/09/2017	19:33	Y_N,Z I, F.D. 95.1 KM, F.C. 1.3kA		Y-N Fault	< 100	No Auto-reclose operation found in PMU
17	<a href="#">220KV ALIPURDUAR-SALAKATI-I</a>	13/09/2017	19:01	13/09/2017	19:33	R_N,Z II, F.D. 83.9 KM, F.C. 1.3 kA		R-N Fault	< 100	No Auto-reclose operation found in PMU
18	<a href="#">220KV MUZAFFARPUR-HAJIPUR-II</a>	14/09/2017	11:56	14/09/2017	12:22	Z-2, B-N, F/D: 43.99KM, F/C-3.186KA		B-N FAULT	< 100	No Auto-reclose operation found in PMU
19	<a href="#">220KV FSTPP-LALMATIA-1</a>	16/09/2017	10:55	16/09/2017	13:22	B-ph, z1, 73.62 km, 1.5 kA		B-N Fault	< 100	No Auto-reclose operation found in PMU
20	<a href="#">220KV FSTPP-LALMATIA-I</a>	17/09/2017	4:05	17/09/2017	21:58	R_N Fault		R_N Fault	< 100	No Auto-reclose operation found in PMU
21	<a href="#">220KV PATNA-KHAGAUL-SC</a>	17/09/2017	10:27	17/09/2017	12:22		B-N , Z-1 , F/D 13 km	B-N Fault	< 100	No Auto-reclose operation found in PMU
22	<a href="#">220KV MUZAFFARPUR-HAJIPUR-I</a>	21/09/2017	9:28	21/09/2017	10:59	B_N,43.91 KM,3.196 KA ZONE 2	13 KM ,ZONE 1,3.07 KA	B-N Fault	150 msec	No Auto-reclose operation found in PMU
23	<a href="#">400KV KHARAGPUR-KOLAGHAT-I</a>	21/09/2017	14:33	21/09/2017	15:10	R_N, F.D. 59.3 KM, F.C. 3.77 kA	R_N,F.D. 15.26 KM, F.C. 8.62 kA	R-N Fault	< 100	No Auto-reclose operation found in PMU
24	<a href="#">220KV JAMSHEDPUR-JINDAL-SC</a>	23/09/2017	11:54	23/09/2017	12:15		B_N, 101 KM, 1.349 kA	B-N Fault	< 100	No Auto-reclose operation found in PMU

25	<a href="#">220KV BIRPARA-MALBASE-SC</a>	25/09/2017	3:17	25/09/2017	3:56	B-N , 28 km , 3.5 kA	Line seems a/r successful at Malbase end	B-N Fault	< 100	No Auto-reclose operation found in PMU
26	<a href="#">220KV JAMSHEDPUR-JINDAL-SC</a>	25/09/2017	11:32	25/09/2017	12:01	Z-I, YN		Y-N Fault	< 100	No Auto-reclose operation found in PMU
27	<a href="#">400KV RANCHI-RAGHUNATHPUR-II</a>	27/09/2017	16:26	27/09/2017	17:18	B-N FAULT		B-N Fault	< 100	No Auto-reclose operation found in PMU
28	<a href="#">400KV RANCHI-RAGHUNATHPUR-III</a>	27/09/2017	16:26	27/09/2017	17:17	B-N Fault		B-N Fault	< 100	No Auto-reclose operation found in PMU
29	<a href="#">400KV KHARAGPUR-KOLAGHAT-I</a>	28/09/2017	11:27	28/09/2017	11:48	Autoreclose successful ,Bph, Z1	KGP end: Bph, Z1, 52.9km, If=3.94kA	B-N Fault	< 100	No Auto-reclose operation found in PMU
30	<a href="#">220KV MAITHON-DHANBAD-II</a>	28/09/2017	18:50	28/09/2017	19:30		R_N, Zone I, F.D. 29.03 KM, F.C. 4.09 kA	R-N Fault	< 100	No Auto-reclose operation found in PMU
31	<a href="#">400KV RANCHI-ROURKELA-I</a>	29/09/2017	16:07	29/09/2017	16:49	Y_N, 93.23 KM, 4.09 kA, A/R Successful	Y_N, 21.22 KM, 9.14 kA	Y-N Fault	< 100	No Auto-reclose operation found in PMU
<b>Miscellaneous: Tripping on DT, No reason furnished</b>										
32	<a href="#">400KV PATNA-KISHANGANJ-I</a>	01/09/2017	11:03	01/09/2017	11:55	DT Received	Maloperation of O/V Stage I at Kishanganj	O/V Stage I at Kishanganj		
33	<a href="#">220KV BARIPADA-BALASORE-II</a>	05/09/2017	11:30	05/09/2017	12:40		Tripped from Balasore end only			
34	<a href="#">132KV RIHAND-GARWAH-I</a>	14/09/2017	11:52	14/09/2017	15:20	Tripped from Rihand end only		Tripped from Rihand end		
35	<a href="#">400KV MALDA-NEW PURNEA-I</a>	14/09/2017	18:54	14/09/2017	19:05	Did Not tripped	DT received	DT received at N Purnea		
36	<a href="#">400KV GMR-ANGUL-II</a>	15/09/2017	18:18	15/09/2017	19:20		DT RECIEVED AT ANGUL	DT RECIEVED AT ANGUL		
37	<a href="#">400KV BIHARSARIFF-LAKHISARAI-II</a>	16/09/2017	16:11	16/09/2017	22:01	O/V (MAL-OPERATION)	DT RECEIVED	O/V AT BSF (MAL-OPERATION)		
38	<a href="#">400KV BIHARSARIFF-LAKHISARAI-II</a>	16/09/2017	22:46	17/09/2017	2:37	Faulty O/V Relay Oprn		O/V Relay Oprn		
39	<a href="#">220KV RENGALI(PH)-RENGALI-II</a>	17/09/2017	23:58	18/09/2017	6:48	Tripped from Rengali(PH) end only.		Tripped from Rengali(PH) end only.		
40	<a href="#">400KV PATNA-BALIA-I</a>	22/09/2017	11:50	22/09/2017	12:43	Tripped from Patna end only				
41	<a href="#">132KV RIHAND-GARWAH-I</a>	22/09/2017	19:12	22/09/2017	20:40	Tripped from Rihand				
42	<a href="#">400KV MEERAMUNDALI-ANGUL-II</a>	23/09/2017	21:23	23/09/2017	21:53	DT RECEIVED AT ANGUL	CB REMAIN CLOSED AT MEERAMANDALI	DT RECEIVED AT ANGUL		
43	<a href="#">400KV MEERAMUNDALI-ANGUL-II</a>	23/09/2017	22:20	23/09/2017	22:34	DT RECEIVED AT ANGUL		DT RECEIVED AT ANGUL		
44	<a href="#">400KV KODERMA-BOKARO-II</a>	27/09/2017	15:31	27/09/2017	16:18	Over Voltage	DT RECEIVED	Over Voltage		
45	<a href="#">400KV GORAKHPUR-MOTIHARI-II</a>	27/09/2017	21:27	27/09/2017	22:33	D/T Received	No indication	DT received at Gorakhpur		