



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

Tel No.:033-24235199, 24235005 FAX No.:033-24221802, 24221358 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

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

**DATE: 04.09.2017**

**FAX MESSAGE NO. -477**

To,

As per list enclosed.

**Sub: Notice for 59<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **59<sup>th</sup> PCC meeting** of ERPC will be held on **20<sup>th</sup> September 2017 (Wednesday)** 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 58<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 August, 2017:
  - Disturbance at 220 kV Meramundali S/s on 01-08-17 at 13:32 hrs.
  - Disturbance at 220kV Hatia on 03-08-17 at 11:45 hrs
  - Disturbance at 400 kV Teesta and Dikchu on 04-08-17 at 13:46 hrs
  - Disturbance at 220 kV Bakreswar S/s on 11-08-17 at 16:05 hrs
  - Disturbance at 400/220 kV Sasaram S/s on 12-08-17 at 14:51 hrs
  - Disturbance at 220 kV Purnea and Madhepura S/s on 14-08-17 at 08:55 hrs
  - Disturbance at 400kV Teesta-III, Dikchu and Rangpo S/s on 16-08-17 at 12:18 hrs
  - Disturbance at 400 kV Banka S/s on 21-08-17 at 13:50 hrs
  - Disturbance at 220/132 kV Waria S/s on 27-08-17 at 07:36 hrs
  - Disturbance at 220 kV CTPS B S/s on 28-08-17 at 13:25 hrs
  - Repeated disturbances at 132 kV Rangit, Kurseong, Melli and Rangpo on 30-08-17 at 05:15 hrs and 31-08-17 at 00:39 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. 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 Corpn. P.O. Box-1351, Thimpu, Bhutan.
Darbhangha(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL)	Head Construction, ENCIL, Siliguri-7340051

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	DR/EL RECEIVED FROM LOCAL END	DR/EL RECEIVED FROM REMOTE END	Remarks
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### Fault Clearing time violating protection standard

<a href="#">220KV PUSAULI-DEHRI-I</a>	05/08/2017	11:27	05/08/2017	12:26	Tripped from PUSAULI end only	E/F, Ir=560 A		300 msec	No autoreclose operation observed in		Yes	
<a href="#">132KV MUZAFFARPUR-DHALKEBAR-I</a>	11/08/2017	3:41	11/08/2017	4:13	Y_N, Z2, 1.288KA, 155.1 KM From Muzaffarpur		Y-N FAULT	150 msec				As per PMU Y-B fault
<a href="#">132KV MUZAFFARPUR-DHALKEBAR-I</a>	11/08/2017	4:16	11/08/2017	4:37	Y_N, Z2, 1.288KA, 155.1KM From Muzaffarpur		Y-N FAULT	1100 msec				As per PMU Y-B fault
<a href="#">400KV TEESTA-III-RANGPO-I</a>	16/08/2017	12:18	16/08/2017	12:41	<a href="#">Tripped on b_n fault - charging attempted at 12:41 hrs failed on</a>		B-N FAULT	480 msec	Unsuccessful	Yes		
<a href="#">220KV TARKERA-ROURKELA-I</a>	07/08/2017	12:36	07/08/2017	12:49	Z1, RN, 9.9KM From Tarkera, 8.29 KA		R-N FAULT	240 msec	No autoreclose operation observed in			
<a href="#">400KV BINAGURI-ALIPURDUAR-II</a>	21/08/2017	10:55	21/08/2017	11:51		Alipurduar: B_N fault, F.D.: 93.5 KM, F.C.: 4.507 kA	B-N FAULT	700 msec	No autoreclose operation observed in PMU data			
<a href="#">220KV STPS(WBSEB)-CHANDIL-I</a>	21/08/2017	13:46	21/08/2017	13:58	R_N Fault, Zone II	Successful A/R from Chandil end	R_N Fault	600 msec	No autoreclose operation observed in		Yes	
<a href="#">220KV STPS(WBSEB)-CHANDIL-I</a>	23/08/2017	10:54	23/08/2017	15:35	Z2, BN, 97.24KM From STPS, 1.30KA	Z1, BN	B_N Fault	525 msec	No autoreclose operation observed in PMU data		Yes	Multiple tripping at the same
<a href="#">220KV CHANDIL-RAMCHANDRAPUR-SC</a>	23/08/2017	10:54	23/08/2017	11:12	Tripped from Ramchandrapur only	Z2, BN, 64.76KM From Ramchandrapur,	B_N Fault	525 msec	No autoreclose operation observed in PMU data		Yes	Multiple tripping at the same
<a href="#">220KV PUSAULI-DEHRI-I</a>	24/08/2017	14:37	24/08/2017	15:23	R-N , 178 KM, 1.1 KA,Z3		R_N Fault	800 msec	No autoreclose operation observed in			
<a href="#">400KV BINAGURI-MALBASE-III</a>	26/08/2017	1:36	26/08/2017	2:10	B-N/109.7KM FRM BINAGURI, Fault current 3.16 ka		B-N FAULT	600 msec	No autoreclose operation observed in			

### No autoreclose operation observed in PMU data

<a href="#">400KV NEW PURNEA-BIHARSARIFF-II</a>	02/08/2017	14:05	02/08/2017	14:28	A/R unsuccessful at new purnea	B_N;201.2 km from biharshariff,2.37 KA,A/R successful at	B-N FAULT	< 100	No autoreclose operation observed in PMU data			
<a href="#">400KV KOLAGHAT-KHARAGPUR-II</a>	04/08/2017	11:36	04/08/2017	12:01	Kgp: Z1, B-ph,Dist=55.2km, Ifault=3.415KA,	Ktpp: Z1, B-ph,Dist=26.69km, I fault= 7.255KA	B-N FAULT	< 100	No autoreclose operation observed in PMU data			
<a href="#">400KV NEW PPSP-ARAMBAGH-I</a>	04/08/2017	19:06	04/08/2017	19:30		AT ARAMBAG:R-N FAULT,32.9 KM.	R-N FAULT	< 100	No autoreclose operation observed in			
<a href="#">220KV PUSAULI-SAHUPURI(UP)-I</a>	05/08/2017	11:02	05/08/2017	12:27	RN, 18.09KM From PUSAULI, 5.539KA		R-N FAULT	< 100	No autoreclose operation observed in			
<a href="#">765KV JHARSUGUDA-DARLIPALI-II</a>	14/08/2017	14:43	14/08/2017	15:45	YN,21KM From Jharsuguda, Iy=11.7KA		Y-N FAULT	<100	No autoreclose operation observed in			
<a href="#">400KV JEERAT-BAKRESWAR-SC</a>	15/08/2017	9:20	15/08/2017	9:54	Y_N, 167KM, 1.04KA, Z_2	Y_N, Z_1, 3.2KM, 5.12KA	Y-N FAULT	<100	No autoreclose operation observed in			
<a href="#">220KV TSTPP-MEERAMUNDALI-I</a>	15/08/2017	19:31	15/08/2017	20:47		R-N, 17 KM, 5.65 KA	R-N FAULT	<100	No autoreclose operation observed in	Yes		
<a href="#">220KV BINAGURI-NJP-I</a>	16/08/2017	23:45	17/08/2017	1:00	B-N FAULT		B-N FAULT	<100	No autoreclose operation observed in			
<a href="#">400KV BINAGURI-ALIPURDUAR-I</a>	21/08/2017	10:24	21/08/2017	11:31	Tripped from Binaguri end only		B-N FAULT	<100	No autoreclose operation observed in			
<a href="#">400KV JEYPORE-GAJUWAKA-II</a>	21/08/2017	14:01	21/08/2017	15:16	B_N, 64.46KM from Jeypore, Ib=2.829KA	B_N, 172.1 KM from Gajuwaka, 0.64 KA	B_N Fault	<100	No autoreclose operation observed in			

<a href="#">220KV CHANDIL-STPS(WBSEB)-I</a>	22/08/2017	11:33	22/08/2017	11:59	R_N Fault		R_N Fault	<100	No autoreclose operation observed in	Yes		
<a href="#">220KV CHANDIL-RANCHI-I</a>	23/08/2017	11:23	23/08/2017	11:56		BN, ZI, 2.18KA, 85.1 KM From Ranchi	B_N Fault	<100	No autoreclose operation observed in	Yes		
<a href="#">220KV PATNA-KHAGAUL-SC</a>	23/08/2017	13:53	23/08/2017	20:51	B-N , 10 KA		B_N Fault	<100	No autoreclose operation observed in			
<a href="#">400KV KODERMA-BIHARSARIFF-II</a>	24/08/2017	21:18	24/08/2017	21:35	B_N, F.C. 8.73 kA, F.D. 26.7 KM (Koderma)	A/R successful from Biharsharif end	B_N Fault	<100	No autoreclose operation observed in			
<a href="#">400KV BINAGURI-TALA-IV</a>	26/08/2017	15:47	26/08/2017	16:21	Zone 1 ,B_N,131 km from binaguri,2.26 KA ar successful	Tripped at tala end only	B_N Fault	<100	No autoreclose operation observed in			
<a href="#">220KV TTPS-TSTPP-I</a>	29/08/2017	21:05	02/09/2017	15:39	B_N,CONDUCTOR SNAP AT TTPS NTPC SWITCHYARD	ZONE 2 ,26.8 KM TTPS GRIDCO	B_N Fault	<100	No autoreclose operation observed in			
<a href="#">220KV BIRPARA-MALBASE-SC</a>	31/08/2017	1:01	31/08/2017	1:51	B_N,3.72 KA,27.17 KM FROM BIRPARA		B_N Fault	<100	No autoreclose operation observed in			
<a href="#">400KV BINAGURI-TALA-IV</a>	31/08/2017	1:38	31/08/2017	1:56		Tripped at Tala end only	Y-N FAULT	<100	No autoreclose operation observed in			

### Miscellaneous: Tripping on DT, No reason furnished

<a href="#">400KV BAHARAMPUR-BHERAMARA-I</a>	01/08/2017	14:58	02/08/2017	19:51	Y_B fault;Iy=1.3 KA,Ib=5.57 KA,60.67 km from behrampur;tripped on reattempting at 15:48	CONDUCTOR SNAP AT LOC 79 IN BORDER AREA	Y-B FAULT, CONDUCTOR SNAP	< 100	Unsuccessful	Yes		As per PMU B_N Fault
<a href="#">220KV NEW MELLI-JORETHANG-I</a>	01/08/2017	19:40	01/08/2017	19:56	tripped at jorethang end only			--				
<a href="#">400KV BINAGURI-NEW PURNEA-II</a>	02/08/2017	23:59	03/08/2017	3:16	OVER VOLTAGE AT STAGE-I		OVER VOLTAGE	--	--			
<a href="#">220KV MAITHON-DUMKA-I</a>	04/08/2017	11:39	04/08/2017	12:23	DT RECEIVED AT MAITHON.NO FAULR IN PMU SEEN	CKT REMAINED CLOSED AT DUMKA		--				
<a href="#">400KV ANGUL-JITPL-II</a>	04/08/2017	19:17	05/08/2017	11:19	DT RECEIVED AT ANGUL		DT RECEIVED AT	--				
<a href="#">400KV BINAGURI-KISHANGANJ-I</a>	05/08/2017	10:34	05/08/2017	10:42	DT Recieved at Binaguri	Tripped from Binaguri end only	DT Recieved at Binaguri	--				
<a href="#">400KV BINAGURI-KISHANGANJ-I</a>	05/08/2017	11:11	05/08/2017	11:28	DT Recieved at Binaguri	Tripped from Binaguri end only	DT Recieved at Binaguri	--				
<a href="#">400KV NEW PURNEA-BIHARSARIFF-II</a>	05/08/2017	13:44	05/08/2017	20:44	Tripped on O/v from Biharsharif end (Mal-operation, voltage at Biharsharif-410KV).DT received at sasarm:DT received.	Charging attempted at 14:44 Hrs but line tripped again on O/V.	O/V	--				
<a href="#">220KV PUSAULI-SAHUPURI(UP)-I</a>	06/08/2017	11:10	06/08/2017	12:59			DT received at					
<a href="#">132KV RIHAND-GARWAH-I</a>	07/08/2017	13:35				Tripped from Rihand end only						
<a href="#">400KV NEW PURNEA-BIHARSARIFF-II</a>	11/08/2017	17:52	11/08/2017	18:17	DT RECEIVED AT PURNEA END		DT RECEIVED AT PURNEA END					
<a href="#">400KV NEW PURNEA-KISHANGANJ-I</a>	12/08/2017	8:55	12/08/2017	10:08	DT RECEIPT AT N PURNEA		DT RECEIPT AT N					
<a href="#">400KV NEW PPSP-NEW RANCHI-II</a>	14/08/2017	11:57	14/08/2017	12:40	Opened from New PPSP only. DT received.		DT received at New PPSP end					
<a href="#">132KV RIHAND-GARWAH-I</a>	16/08/2017	13:07	16/08/2017	16:45	TRIPPED FROM RIHAND END.		TRIPPED FROM RIHAND END.					
<a href="#">132KV RIHAND-GARWAH-I</a>	16/08/2017	13:30	16/08/2017	16:50	TRIPPED FROM RIHAND END		TRIPPED FROM RIHAND END					
<a href="#">400KV SUBHASGRAM-HALDIA-II</a>	17/08/2017	20:59	17/08/2017	22:31	D/T recve	A/R relay L.O	D/T received at					
<a href="#">400KV NEW DUBURI-MEERAMUNDALI-II</a>	21/08/2017	15:39	21/08/2017	16:26	DT Recived at New Dubri		DT Recived at New Dubri					
<a href="#">132KV RIHAND-GARWAH-I</a>	23/08/2017	15:03	23/08/2017	16:15	Tripped from Rihand end		Tripped from					
<a href="#">400KV BINAGURI-TALA-IV</a>	31/08/2017	0:48	31/08/2017	1:20	Tripped at Tala end only		Tripped at Tala end only					As per PMU R-N Fault, No Autoreclose
<a href="#">400KV BINAGURI-MALBASE-III</a>	31/08/2017	0:48	31/08/2017	1:20	Tripped at Malabase end only		Tripped at Malabase end only					As per PMU R-N Fault, No Autoreclose