



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

NO. ERPC/PROTECTION/2018/

DATE: 05.07.2018

FAX MESSAGE NO. - 294

To,

As per list enclosed.

Sub: Notice for 69th Protection Coordination sub-Committee (PCC) meeting of ERPC

Notice is hereby given that **69th PCC meeting** of ERPC will be held on **19th July 2018 (Thursday)** at 10: 30 hrs at **ERPC Conference Room, Kolkata.**

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 68th 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 June, 2018:

Sl No	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)	Fault duration (As Per PMU)
1	05-06-2018	10:20	BSPTCL	Tripping of 220 kV New Purnea - Madhepura D/C on R-N fault resulted total power failure at Madhepura, Supaul and Lahan (Nepal)	133	0	300 ms
2	05-06-2018	16:32	BSPTCL	220 kV New Purnea - Madhepura I was out of service since GD at Madhepura at 10:20 hrs on same day. At 16:32 hrs 220 kV New Purnea Madhepura II tripped on Over current resulting total power failure at Madhepura Supaul and Lahan (Nepal)	160	0	<100 ms
3	10-06-2018	21:52	WBSETCL	400 kV HEL - Subhasgram D/C tripped on B-N fault resulting station black out at Haldia due to loss of evacuation path	0	550	--
4	15-06-2018	10:58	BSPTCL	At 10:58 hrs, 220 kV Patna - Sipara T/C, 220 kV Sipara Khagul S/C, 220 kV Sipara Fatuah S/C, 220/132 kV ICT - I, II & III at Sipara tripped on bus bar relay operation at Sipara resulting load loss at Sipara and its surrounding area.	328	0	<100 ms

SI No	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)	Fault duration (As Per PMU)
5	19-06-2018	10:10	WBSETCL	At the time of taking shutdown of main CB connected to GT of Bakreswar unit II and connecting the unit to transfer bus via bus coupler CB, all elements connected to bus I tripped on LBB operation. It is suspected that NIT (Normal Intermediate Switch) remained in the intermediate position in the case of bus coupler CB between 400 kV main and transfer bus, which led to LBB initiation.	0	210	Fault not observed in PMU data
6	26-06-2018	04:39	BSPTCL	At 04:39 Hrs 220 kV Purnea - New Madhepura D/C tripped on R-N fault resulting load loss at surrounding area	150	0	<100

4) Single line tripping incidences of June, 2018 is 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.

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-

(J. Ganeswara Rao)
Executive Engineer

LIST OF ADDRESSES:

Chief Engineer, Trans (O&M) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey Road, Patna-800021	Electrical Superintending Engineer (CRITL) Bihar State Power Transmission Limited, Vidyut Bhawan, Bailey Road, Patna-800021
Chief Engineer (SLDC) Damodar Valley Corporation, GOMD-I Premises, P.O.- Danesh Seikh Lane, Howrah- 711109	Chief Engineer (CTC) Damodar Valley Corporation, P.O. Maithon Dam, Dist. Dhanbad, Jharkhand-828207
Chief Engineer, Trans (O&M) Jharkhand Urja Sancharan Nigam Limited Kusai Colony, Doranda, Ranchi-834002	Electrical Superintending Engineer (CLD) Jharkhand Urja Sancharan Nigam Limited, Kusai Colony, Doranda, Ranchi-834002
Chief General Manager (O&M), OPTCL, Janpath, Bhubaneswar,	Sr. General Manager (PPA), Technical Wing, OHPCL, Orissa State Police Housing & Welfare

Odisha – 751 022. FAX: 0674-2542932 cgm.onm@optcl.co.in	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	Manager (Electrical), Adhunik Power & Natural Resources Ltd. “Lansdowne Towers, Kolkata-700020 (Fax No. 033-2289 0285)
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
Executive Director, ERLDC, POSOCO, Tollygunge,Kolkata-700033	Head Construction, ENCIL, Siliguri-7340051
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 st 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.
General Manager, Darbhanga(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL) 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)
Director (NPC), CEA, NRPC Building, Katwaria Sarai, New Delhi- 110016	Director (GM Division), Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110066
Director, Shiga Energy Pw. Ltd., 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002	President, Dans Energy Pvt. Ltd, 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002
Director, Shiga Energy Pw. Ltd., 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002	DGM (E&I), HALDIA ENERGY LIMITED, BARIK BHAWAN, KOKATA-700072, FAX: 033-22360955

CC:

ASSISTANT SECRETARY, ERPC		
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List of line tripping in the month of June 2018 to be discussed in PCC

S.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	Remarks
Multiple tripping at the same time											
1	220KV BUDHIPADAR-RAIGARH-I	10-06-2018	2:40	10-06-2018	4:01	Z1, BN, 9.8 KM, 5.39 KA	Did not trip	B-N FAULT	< 100 msec	No A/R operation found in PMU	
2	220KV BUDHIPADAR-KORBA-II	10-06-2018	2:40	10-06-2018	4:02	Z1, BN, 9.3 KM, 5.27 KA		B-N FAULT	< 100 msec	No A/R operation found in PMU	
3	220KV MAITHON-DUMKA-I	14-06-2018	17:31	14-06-2018	18:38	R-N, 3.6 km, 21.09 KA	Tripped from Dumka end	R-N FAULT	< 100 msec	No A/R operation found in PMU	
4	220KV MAITHON-DUMKA-II	14-06-2018	17:31	15-06-2018	9:41	Y-N, 1.9 km, 21.44 kA	Tripped from Maithon end	Y-N FAULT	< 100 msec	No A/R operation found in PMU	
5	220KV RAURKELLA-TARKERA-I	15-06-2018	12:54	15-06-2018	13:50	R-Y-N, 15.3 KM,R=5.855 KA, Y=8.519 KA		R-Y-N Fault	500 msec		
6	220KV RAURKELLA-TARKERA-II	15-06-2018	12:54	15-06-2018	13:37	Did not trip	TRIPPED FROM TARKERA END	TRIPPED FROM TARKERA END Only	500 msec		
7	400KV MENDHASAL-PANDIABILI-II	20-06-2018	16:12	20-06-2018	16:50	TRIPPED FROM MENDHASAL END ONLY	Did not trip	TRIPPED FROM MENDHASAL END ONLY	< 100 msec	No A/R operation found in PMU	
8	400KV MENDHASAL-PANDIABILI-I	20-06-2018	16:12	20-06-2018	16:50	TRIPPED FROM MENDHASAL END ONLY	Did not trip	TRIPPED FROM MENDHASAL END ONLY	< 100 msec	No A/R operation found in PMU	
Miscellaneous: Tripping on DT, No Fault observed in PMU											
9	220KV ATRI-PANDIABILI-II	04-06-2018	18:24	04-06-2018	18:48	DT RECEIVED AT PANDIABILLI		DT RECEIVED AT PANDIABILI		No fault observed in PMU	
10	400KV MENDHASAL-PANDIABILI-II	05-06-2018	13:52	05-06-2018	14:50	MASTER TRIP RELAY	Did not trip			No Fault observed in PMU	
11	400KV TSTPP-RENGALI-I	09-06-2018	9:46	09-06-2018	13:20	DT RECEIPT AT TALCHER		DT RECEIVED AT TALCHER		No fault observed in PMU	
12	400KV NEW PPSP-NEW RANCHI-I	20-06-2018	9:39	20-06-2018	9:58	DT RECEIPT AT PPSP		DT RECEIVED AT PPSP		No fault observed in PMU	
Autoreclose related issues											
13	400KV KHARAGPUR-CHAIBASA-II	19-06-2018	13:10	19-06-2018	13:20	B_N,z1,38.7 km ,5.53 ka a/r successful	2.2 KA ,B-N,152 km ,ZOne 2	B-N FAULT	< 100 msec	No A/R operation found in PMU	
14	400KV KHARAGPUR-CHAIBASA-I	20-06-2018	14:38	20-06-2018	14:59	A/R success, Z1, R-N,4.53KA,59Km	R-N,108KM, 3.19KA	R-N FAULT	< 100 msec	No A/R operation found in PMU	
15	400KV KHARAGPUR-CHAIBASA-I	20-06-2018	15:37	20-06-2018	17:35	B_N Fault		B-N FAULT	< 100 msec	No A/R operation found in PMU	
16	400KV KHARAGPUR-CHAIBASA-I	24-06-2018	12:15	24-06-2018	12:34	R_N,Z1, A/R Successful FC : 3 KA FD : 126 KM	R_N,Z1, FC : 5.47 KA FD : 58.9 KM	R-N FAULT	< 100 msec	No A/R operation found in PMU	
17	400KV RANCHI-RAGHUNATHPUR-II	07-06-2018	12:37	07-06-2018	13:13	RN, 3.3 KM, 16.45 KA	RN, 1.859 KA	R-N FAULT	< 100 msec	No A/R operation found in PMU	
18	400KV RANCHI-RAGHUNATHPUR-II	08-06-2018	12:08	08-06-2018	13:28	RN, 85.7 KM, 3.75 KA	RN, 24.71 KM, 8.47 KA	R-N FAULT	< 100 msec	No A/R operation found in PMU	
19	220KV MAITHON-DHANBAD-II	07-06-2018	11:58	07-06-2018	12:14	BN, 47.23 KM, 1.154 KA	A/R SUCCESSFUL	B-N FAULT	400 msec	No A/R operation found in PMU	
20	220KV MAITHON-DHANBAD-II	07-06-2018	13:40	07-06-2018	13:59	B-N, 43.46 KM, 1.616 KA	A/R SUCCESSFUL	B-N FAULT	400 msec	No A/R operation found in PMU	
21	220KV MAITHON-DHANBAD-I	20-06-2018	15:58	20-06-2018	16:05	R_N, F.D. 40 KM, F.C. 3.02 kA, A/r successful		R-N FAULT		No A/R operation	
22	765KV FATEHPUR-PUSAULI-I	17-06-2018	17:37	17-06-2018	19:15	R-N fault. FD: 254.5km FC: 2.7kA	67.96 km,2.306 KA,R_N	R-N FAULT	< 100 msec	No A/R operation found in PMU	
23	400KV MEERAMUNDALI-STERLITE-II	01-06-2018	12:21	01-06-2018	13:08		Z-1 , B-N, F.C-1.875 KA , F.D -163.1 km.	B-N FAULT	< 100 msec	No A/R operation found in PMU	
24	400KV BIHARSARIFF(PG)-MUZAFFARPUR(PG)-II	12-06-2018	15:33	12-06-2018	16:18	B_N, 21.36 KM, 12.14 ka	B_N, 8.43 KM, 4.028 ka	B-N FAULT	< 100 msec	No A/R operation found in PMU	

S.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	Remarks
25	400KV PATNA-KISHANGANJ-I	12-06-2018	15:59	12-06-2018	16:32	Y_N, 83.6 KM, 4.5 kA	Y_N, 237.6 KM, 1.1 kA	Y-N FAULT	< 100 msec	A/R unsuccessful, but timing issue	
26	400KV KOLAGHAT-ARAMBAGH-SC	19-06-2018	13:25	19-06-2018	13:47	B-N,ZONE-1,DISTANCE 63.03KM, F/C- 3.92KA		B-N FAULT	< 100 msec	A/R unsuccessful, but timing issue	
27	400KV MAITHON-KhSTPP-II	22-06-2018	16:21	22-06-2018	23:57	BN, Z2,2.164 KA	BN, 9.4 KM, 26 KA	B-N FAULT	< 100 msec	No A/R operation found in PMU	
28	220KV TTPS-TSTPP-SC	07-06-2018	15:10	07-06-2018	16:36		ZI, B-N, 12.9KA, 4.8KM	B-N FAULT	< 100 msec	No A/R operation found in PMU	
29	220KV BARIPADA-BALASORE-I	08-06-2018	15:44	08-06-2018	16:14	R-N ,53 KM ,2.5KA		R-N FAULT	< 100 msec	No A/R operation found in PMU	
30	220KV STPS(WBSEB)-CHANDIL-SC	20-06-2018	16:42	27-06-2018	17:04	Y-N FAULT		Y-N FAULT	< 100 msec	No A/R operation found in PMU	
31	220KV KATAPALLI-BOLANGIR(PG)-SC	21-06-2018	19:35	21-06-2018	19:59	R-N, Z1, FD 50.59KM	R-N, FC 1.42 KA, Z1, FD 41.4 KM	R-N FAULT	< 100 msec	No A/R operation found in PMU	
32	220KV DALKHOLA-SILIGURI-II	21-06-2018	23:06	21-06-2018	23:22	B-N,Z1,FD=44.5 KM,FC 2.33KA	B-N,Z1,FD=32.19KM,FC =4.266KA.A/R SUCCESSFUL	B-N FAULT	< 100 msec	No A/R operation found in PMU	
33	220KV DALKHOLA-SILIGURI-I	21-06-2018	23:06	21-06-2018	23:25	R-N,Z1,FD=54.71KM,FC=2.344KA, A/R successful	R-N,FD=42.271KM,FC=3.925KA	R-N FAULT	< 100 msec	No A/R operation found in PMU	
34	220KV DARBHANGA(DMTCL)-LAUKAHI-II	26-06-2018	3:55	26-06-2018	6:17	RN, 2.4 KA, 32 KM		R-N FAULT	< 100 msec	No A/R operation found in PMU	