



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  
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**NO. ERPC/PROTECTION/2018/**

**DATE: 03.08.2018**

**FAX MESSAGE NO. -343**

To,

As per list enclosed.

**Sub: Notice for 70<sup>th</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **70<sup>th</sup> PCC meeting** of ERPC will be held on **21<sup>st</sup> August 2018 (Tuesday)** 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 69<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 July, 2018:

Sl No	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)	Fault duration (As Per PMU)
1	04-07-2018	10:52	ISTS	400 kV Motihari - Barh D/C and 400 kV Motihari - Gorakhpur - II were under breakdown. 400 kV Motihari - Gorakhpur - I tripped at 10:52 hrs on O/V resulting total power failure at Motihari S/S as there is no other source.	200	0	--
2	04-07-2018	19:00	WBSETCL	At 19:00 hrs 220 kV NJP - TLDP - III S/C tripped resulting total power failure at TLDP - III	0	136	<100
3	10-07-2018	08:14	ISTS	At 08:14 hrs, 400 KV Binaguri Rangpo I tripped on RBN fault. 400 KV Teesta III Rangpo tripped at 08:14 hrs on SPS-2 operation. All running units of Teesta III and Dikchu tripped due to loss of evacuation path.	0	890	<100
4	19-07-2018	13:31	BSPTCL	At 13:15 Hrs , 220 kV Madhepura-New Purnea-II tripped on BN fault. At 13:31 Hrs Purnea –Madhepura I also tripped duet to Y-B phase fault resulting total power failure at Madhepura S/S.	150	0	--

SI No	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)	Fault duration (As Per PMU)
5	20-07-2018	09:10	JUSNL	At 13:15 Hrs , 220 kV Madhepura-New Purnea-II tripped on BN fault. At 13:31 Hrs Purnea –Madhepura I also tripped duet to Y-B phase fault resulting total power failure at Madhepura S/S.	150	0	--
6	20-07-2018	19:00	ISTS	At 08:44 hrs 220 kV Ranchi - Hatia - I tripped on B-N fault along with 220/132 kV ICTSs at Hatia resulting loss of power supply at nearby area. Power was restored back at 09:02 hrs by charging ICTs. But 220 kV Ranchi - Hatia - II along with 220 kV Patratu - Hatia D/C tripped at 09:10 hrs resulting total power failure at Hatia S/S as well as nearby area.	78	0	500 ms approx
7	21-07-2018	07:11	ISTS	400 kV Motihari - Barh D/C and 400 kV Motihari - Gorakhpur - II were under breakdown. 400 kV Motihari - Gorakhpur - I tripped at 19:00 hrs on gas compartment zone protection due to mal-operation of gas monitoring relay which shows low indication despite proper level being maintained.	280	0	No fault has been observed
8	27-07-2018	01:42	DVC	400 kV Motihari - Barh D/C and 400 kV Motihari - Gorakhpur - II were under breakdown. 400 kV Motihari - Gorakhpur - I tripped at 07:11 hrs on gas compartment zone protection due to mal-operation of gas monitoring relay which shows low indication despite proper level being maintained.	110	0	No fault has been observed
9	28-07-2018	21:07	DVC	220 kV main bus II at Kalyaneswari and Mejia tripped resulting tripping of all elements connected to these buses due to LBB operation after non-opening of breakers at both ends on R-N fault at 220 kV Mejia - Kalyaneswari - I	0	328	<100
10	30-07-2018	20:48	ISTS	400 kV Andal – Jamshedpur D/C tripped at 21:07 hrs on R-N fault. At same time, unit II at Andal tripped on stator E/F protection.	0	360	350

4) Single line tripping incidences of July 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](http://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, (CRITL) Jharkhand Urja Sancharan Nigam Limited Kusai Colony, Doranda, Ranchi-834002	Electrical Superintending Engineer (CLD) Jharkhand Urja Sancharan Nigam Limited, Kusai Colony, Doranda, Ranchi-834002
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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 )
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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)
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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
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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
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Managing Director, Bhutan Power Corporation Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corpn. P.O. Box-1351, Thimpu, Bhutan.
General Manager, Darbhanga(Bihar), Darbhanga	Shri Brajesh Kumar Pande, Plant Head, JITPL.

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Shri D. P. Bhagava, Chief Consultant (O&M), Teesta Urja Limited, New Delhi (FAX:011-46529744)	Director (GM Division), Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110066
Director (NPC), CEA, NRPC Building, Katwaria Sarai, New Delhi- 110016	President, Dans Energy Pvt. Ltd, 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722002
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**CC:**

ASSISTANT SECRETARY, ERPC		
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## List of line tripping in the month of July 2018 which may be discussed in PCC

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
<b>Multiple tripping at the same time</b>												
<a href="#">400KV MAITHON-MEJIA-II</a>	07-07-2018	12:54	07-07-2018	15:40	B_N, F.D. 59.7 KM, F.C. 3 kA		B-N Fault	<100 msec	No A/R operation			
<a href="#">400KV MAITHON-MEJIA-III</a>	07-07-2018	12:54			B_N, F.D. 74.6 KM, F.C. 4.2 kA		B-N Fault	<100 msec	No A/R operation			
<a href="#">220KV PANDIABILI-SAMANGARA-II</a>	15-07-2018	9:05	15-07-2018	9:41		B-N FAULT, TRIPPED FROM SAMANGARA END ONLY	B-N Fault	<100 msec	No A/R operation			
<a href="#">220KV PANDIABILI-SAMANGARA-I</a>	15-07-2018	9:05	15-07-2018	9:48	B-N FAULT, TRIPPED FROM PANDIABILI END		B-N Fault	<100 msec	No A/R operation			
<b>Miscellaneous: Tripping on DT, No Fault observed in PMU</b>												
<a href="#">400KV TSTPP-RENGALI-I</a>	04-07-2018	16:17	04-07-2018	18:42	DT RECEIPT AT TALCHER END. Again tripped at 16:42 hrs due to DT receipt at Tstpp end	No tripping at Rengali end	DT RECEIPT AT TALCHER	--				No Fault observed in PMU
<a href="#">400KV GMR-ANGUL-I</a>	06-07-2018	0:56	06-07-2018	2:19	Tripped from only gmr end		Tripped from only gmr end	--				No Fault observed in PMU
<a href="#">400KV MUZAFFARPUR-GORAKHPUR-I</a>	18-07-2018	15:23	18-07-2018	17:03	DT received		DT received at MZF	--				No Fault observed in PMU
<a href="#">400KV RANCHI-SIPAT-II</a>	26-07-2018	8:03	26-07-2018	8:37	TRIPPED FROM RANCHI END ONLY		TRIPPED FROM RANCHI END ONLY	--				No Fault observed in PMU
<a href="#">400KV RANCHI-SIPAT-II</a>	26-07-2018	13:17	26-07-2018	16:10	FAULT IN CABLES AT RANCHI		FAULT IN CABLES AT RANCHI	--				No Fault observed in PMU
<a href="#">400KV BAHARAMPUR-SAGARDIGHI-II</a>	29-07-2018	7:47	29-07-2018	8:15		Tripped at Sagardighi end only	Tripped at Sagardighi end only	--			Yes	No Fault observed in PMU
<a href="#">400KV BAHARAMPUR-SAGARDIGHI-I</a>	30-07-2018	12:47	30-07-2018	13:04	DT Received	Not tripped	DT Received at Baharampur	--				No Fault observed in PMU
<b>Autoreclose related issues</b>												
<a href="#">220KV RANCHI-HATIA-II</a>	03-07-2018	16:53	03-07-2018	17:46	B-N,FD 14.7 KM,FC=5.83 KA, A/R successful	B-N,FD 10.80 KM,FC IB 1.8 KA	B-N Fault	<100 msec	No A/R operation			
<a href="#">220KV GAYA-SONENAGAR-I</a>	03-07-2018	17:58	03-07-2018	19:32	R-N,22.3 KM,5.35 KA	Z1 58.49 KM,IR=1.24 KA	R-N Fault	<100 msec	No A/R operation			
<a href="#">220KV BINAGURI-BIRPARA-II</a>	03-07-2018	21:46	03-07-2018	22:58	Y-N, 63.33 KM, FC 2.303 KA	Y-N, FC 2.193 KA, DIST 49.49 KM, A/R successful	Y-N Fault	<100 msec	No A/R operation	Yes	Yes	
<a href="#">400KV RANGPO-DIKCHU-I</a>	04-07-2018	21:04	04-07-2018	21:34	BN, 25.54 KM, 8.35 KA, A/R SUCCESSFUL	BN, 23.82 KM, 3.134 KA, ONLY TIE CB TRIPPED	B-N Fault	<100 msec	No A/R operation		Yes	LINE SYNCHRONISED FROM DIKCHU END AT 21:34 WITHOUT INFORMING ERLDC
<a href="#">220KV WARIA-BIDHANNAGAR-II</a>	05-07-2018	3:52	05-07-2018	5:01		RN,Z-2,5.4 KA,19.85 KM	R-N Fault	300 msec	No A/R operation			
<a href="#">400KV RANGPO-DIKCHU-I</a>	05-07-2018	14:46	05-07-2018	15:15	B-N, 22.1KM, 7.7KA		B-N Fault	<100 msec	No A/R operation		Yes	
<a href="#">220KV STPS(WBSEB)-CHANDIL-SC</a>	06-07-2018	11:37	06-07-2018	19:26	B-N,36 KM,Z1,3.46 KA	Z1,A/R LOCKOUT IN CHANDIL,112 KM REATTEMPTED AT 12:15 A/R LOCKOUT,Z1 B-N,79.81 KM,1.89 KA	B-N Fault	800 msec	No A/R operation			Fault clearance time very high
<a href="#">220KV STPS(WBSEB)-CHANDIL-SC</a>	11-07-2018	3:40	11-07-2018	3:59	Y-N FAULT		Y-N Fault		No A/R operation			
<a href="#">400KV ALIPURDUAR-BONGAIGAON-II</a>	11-07-2018	14:04	11-07-2018	15:13	Y-N F/D 19.8 KM F/C 6.238 KA		Y-N Fault		No A/R operation			
<a href="#">400KV JEERAT-BAHARAMPUR-SC</a>	17-07-2018	15:27	17-07-2018	16:20		B-N fault , A/R successful	B-N Fault	<100 msec	No A/R operation			
<a href="#">400KV MALBASE-BINAGURI-I</a>	20-07-2018	17:54	20-07-2018	18:57	R-N,92.43 KM,3.876 KA		R-N Fault	<100 msec	No A/R operation			
<a href="#">400KV MEERAMUNDALI-STERILITE-I</a>	21-07-2018	16:34	22-07-2018	12:09	Y-N,140.6km, 3.06KA		Y-N Fault	<100 msec	No A/R operation			
<a href="#">220KV KATAPALLI-BOLANGIR(PG)-SC</a>	23-07-2018	11:53	23-07-2018	12:53		B_N, 4.38 kA, 9 KM	B-N fault	<100 msec	No A/R operation			
<a href="#">220KV MAITHON-DHANBAD-I</a>	27-07-2018	1:44	27-07-2018	1:50		R_N Fault. A/r successful	R-N Fault	<100 msec	No A/R operation			