



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
पूर्वी क्षेत्रीय विद्युत समिति  
**Eastern Regional Power Committee**  
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**NO. ERPC/PROTECTION/2019/**

**DATE: 04.09.2019**

**FAX MESSAGE NO. - 711**

To,

As per list enclosed.

**Sub: Notice for 83<sup>rd</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Notice is hereby given that **83<sup>rd</sup> PCC meeting** of ERPC will be held on **27<sup>th</sup> September 2019 (Friday)** 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 82<sup>nd</sup> Protection sub-Committee Meeting of ERPC
- 3) Analysis of following grid disturbances of August, 2019:

SI No	GD/GI	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)
1	GI-II	05-08-2019	10:14	ISTS	At 10:14 hrs, pole-I of HVDC Talcher-Kolar blocked on operation of external protection trip operation. Prior to the blocking, power flow through HVDC link was 600 MW which did not change after the blocking of pole I. Due to SPS operation generation at JITPL reduced from 540 MW to 490 MW.	0	50
2	GI-I	08-08-2019	21:23	DVC	At about 21:23Hrs on 08-08-19, LBB protection operated for 220 kV Main Bus I at CTPS –B resulting tripping of all elements connected to 220 kV main bus I i.e. 220kV CTPS-B-CTPS-A Tie Ckt-II(L#246), 220kV CTPS-B-Dhanbad Ckt-II (L#204), 220kV CTPS-B-BTPS-B Ckt-II (L#206). Bus coupler breaker was in opened condition prior to the incident. Unit VII (connected to bus II) also tripped due to auxiliary failure, resulting in a generation loss of 460 MW.	0	460
3	GD-I	13-08-2019	05:53	OPTCL	At 05:18 hrs, 220 kV Bolangir (PG) – Sadaipalli S/C tripped from Sadaipalli end. At 05:53 hrs, 220 kV Bolangir (PG) – Katapalli S/C and 220 kV New Bargarh – Sadaipalli S/C tripped resulting total power failure at Sadaipalli (Bolangir New) and its surrounding areas.	90	0

4	GD-I	16-08-2019	16:22	CESC	220 kV EMSS - Subhasgram - I & II tripped at 16:22 and 16:23 hrs respectively resulting total power failure at EMSS. Circuit I tripped on R-N fault followed by Y-N fault. Circuit II tripped on R-N fault after unsuccessful A/R attempt.	0	467
5	GD-I	16-08-2019	22:23	BSPTCL	220 kV Darbhanga (DMTCL) – Darbhanga (BSPTCL) - II was not in service. 220 kV Darbhanga (DMTCL) – Darbhanga (BSPTCL) - I tripped at 22:23 hrs from DMTCL end on Y-N fault leading to load loss of around 155 MW at Darbhanga, Pupri, Madhubani, Pandual, Jhanjharpur area in Bihar system. Line was charged from DMTCL at 23:15 hrs but again tripped at 23:17 hrs from Darbhanga(B) end.	186	0
6	GD-I	18-08-2019	17:24	BSPTCL	At 17:24 hrs 220 kV Gaya Dehri D/C, 220 kV Sasaram – Dehri S/C and 220/132 kV ICTSs at Dehri tripped resulting total power failure at Dehri. Y phase jumper on LV side of 220/132 kV ICT IV at Dehri snapped. As per PMU data at Gaya, fault clearing time is 900 ms.	217	0
7	GD-I	21-08-2019	00:02	ISTS	400 kV Teesta III Kishangunj S/C and 400 kV Rangpo – Kishangunj S/C were out of service due to breakdown. At 00:00 hrs, on 21-08-19, generation was increased at Dikchu and Teesta HEP from 60 MW to 102 MW and from 900 MW to 1100 MW respectively. On further increase of generation at Teesta III to 1260 MW at 00:02 hrs., power flow through 400 kV Dikchu – Rangpo – S/C became 1365 MW resulting operation of Directional O/C protection at Rangpo end of 400 kV Dikchu – Rangpo – S/C though current was less than 2 kA at the time of the tripping. After the tripping of 400 kV Dikchu – Rangpo – S/C, Teesta III and Dikchu HEP generators tripped due to loss of evacuation path. At same time, O/V stage II protection occurred at Teesta III end for 400 kV Teesta III – Dikchu S/C and tripped the said line.	0	1364
8	GD-I	22-08-2019	12:22	ISTS	At 12:17 hrs, all running units at Jorethang tripped due to loss of evacuation path after the tripping of 220 kV Jorethang – New Melli D/C. As per DR recorded at Jorethang end for 220 kV New Melli – I feeder, fault was cleared in Z-I and breaker opened from remote end after 500 ms.	0	91

9	GI-II	29-08-2019	08:08	ISTS	The 400 KV Y-ph CT 125MVAR BR-1 main bay of New Purnea Sub-station had failed and caught fire on 29.08.2019 at 08:08 Hrs. The Said 125MVAR Bus Reactor-1 was out of service on voltage regulation. However the bay was in charge condition for completion of the DIA. Due to said failure of the CT, 400kV Busbar-2 protection operated due to failure of CT and all the CB's connected with 400kV Busbar-2 got tripped. However as the fault was even persisting after tripping of Busbar-2, all the connected feeders with Bus-1 tripped on operation of Z-2 from remote end and Reverse zone from New Purnea end (Except 400kV Kishangunj 1 & 2, whose main CB didn't trip as the line tripped from Kishangunj end in 350 m Sec in Z2). All the anti-theft charged line from New Purnea (Biharshar-1 &2 and Farakka) also tripped instantaneously. All the 220kV feeders were in service and power to Bihar STU was not interrupted.	0	0
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4) Single line tripping incidences of August-2019 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
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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 Corprn. P.O. Box-1351, Thimpu, Bhutan.
General Manager, Darbhanga(Bihar), Darbhanga Motihari Transmission Company Limited (DMTCL)	Shri Brajesh Kumar Pande, Plant Head, JITPL. (FAX:011-26139256-65)
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CC:

ASSISTANT SECRETARY, ERPC		
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