



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/2020/ 2403-2446**

**DATE: 13.07.2020**

To,

As per list enclosed,

**Sub: Notice for 92<sup>nd</sup> Protection Coordination sub-Committee (PCC) meeting of ERPC**

Sir,

Notice is hereby given that **92<sup>nd</sup> PCC meeting** of ERPC will be held on **22<sup>th</sup> July, 2020 (Wednesday)** from **10:30 hrs** through online WEBEX meeting platform.

The tentative agenda items for discussion will be as follows:

- 1) Confirmation of the minutes of 91<sup>st</sup> Protection sub-Committee Meeting of ERPC.
- 2) Analysis of following grid disturbances of June 2020:

SI No	GD/ GI	Date	Time	Affected System	Summary	Load loss (MW)	Gen loss (MW)
1	GD-1	10-06-2020	10:54	BSPTCL	On 10th June 2020, at 10:54 Hrs, 220 kV Darbhanga (DMTCL)-Darbhanga (BSPTCL) D/C tripped from BSPTCL end. At the same time 220 kV Darbhanga (BSPTCL) – Mushahari – 1 and 220 kV Darbhanga (DMTCL) – Motipur – 1 also tripped resulting in load loss at Darbhanga, Madhubani and Pandaul.	135	0
2	GD-1	11-06-2020	22:38	ISTS	220 kV New Melli - Jorethang – D/C tripped from Jorethang end only resulting tripping of all running units at Jorethang. 220 kV Tashiding Rangpo S/C and 220 kV Tashiding New Melli S/C tripped.	0	166
3	GD-1	13-06-2020	04:54	ISTS	220 kV New Melli - Jorethang – D/C tripped from Jorethang end only resulting tripping of all running units at Jorethang. 220 kV Tashiding – New Melli S/C tripped from both ends. But both running units at Tashiding tripped on GT O/C protection.	0	175
4	GD-1	13-06-2020	07:18	ISTS	220 kV New Melli - Jorethang – D/C tripped from Jorethang end only resulting tripping of all running units at Jorethang. 220 kV Tashiding Rangpo S/C and 220 kV Tashiding New Melli S/C tripped.	0	117
5	GI-2	19-06-2020	12:54	ISTS	At 12:54 hrs. gas density high alarm initiated in 400 KV Rangpo-Binaguri Ckt-I at Rangpo and	0	109

					tripping command was sent to 400kV Main Bus-I at Rangpo. All feeders connected to 400 kV main bus 1 tripped. Due to unavailability of tie bay of 400/132 kV ICT at Dikchu, both the running units at Dikchu HEP were connected to bus 1 at Dikchu via 400/132 kV ICT. After tripping of 400 kV Dikchu – Rangpo S/C (it was also connected to bus 1 at both Rangpo and Dikchu) due to bus bar operation at Rangpo, both the units tripped due to loss of evacuation path.		
6	GD-1	23-06-2020	11:58	OPTCL	At 11:41 hrs 220 kV Joda – TTPS D/C tripped on B phase to earth fault. At 11:57 hrs, 220 kV Ramchandrapur – Joda S/C tripped on overload. Prior to the tripping, power flow was 160 MW. At same time 220 kV Joda JSPL (Jindal) – Jamshedpur S/C tripped at same time from Ramchandrapur and Jamshedpur end respectively in overcurrent protection	160	0
7	GI-1	24-06-2020	18:23	ISTS	220 kV Muzaffarpur Dhalkebar D/C tripped at 18:23 hrs from Muzaffarpur end on R phase directional earth fault. Prior to the tripping schedule of Nepal drawal over this link was 74 MW and it would increase to 163 MW w.e.f. 18:30 hrs. There was no generation or load loss reported in Indian grid at the time of the event.	0	0
8	GI-2	25-06-2020	02:47	ISTS	400 kV Alipurduar -Jigmelling D/C tripped at 02:47 Hrs due to R phase to earth fault. At Alipurduar, auto reclose was successful for both circuits. But both the circuits tripped from Jigmelling. Around 590 MW generation loss was reported at the time of the event. There was no generation or load loss reported in Indian grid at the time of the event.	0	0
9	GI-2	26-06-2020	15:40	ISTS	400 kV Jigmelling - Alipurduar – 1 along with all four running units (generating around 770 MW) of Mangdechu tripped at 15:40 hrs. DT signal was received at Alipurduar end of 400 kV Jigmelling Alipurduar – 1 at the time of the tripping. Later, at 15:53 hrs, 400 kV Jigmelling - Alipurduar – 2 also tripped due to B phase to earth fault. 400 kV Jigmelling - Alipurduar – 1 was extended from Alipurduar end at 16:24 hrs. But while synchronising at Jigmelling end, it tripped again at 16:49 hrs with DT received at received at Alipurduar. There was no generation or load loss reported in Indian grid at the time of the event.	0	0
10	GD-1	26-06-2020	18:43	OPTCL	GMR unit # 3 was connected to 400/220 kV Meramundali S/S of OPTCL STU network through 400 kV GMR – Meramundali S/C. At 18:43 hrs, 400 kV GMR Meramundali S/C tripped due to DT received at Meramundali	0	180

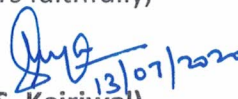
					end. This caused total power failure at GMR (OPTCL) section and GMR unit #3 tripped. In PMU data, no fault was observed at the time of event		
11	GI-2	27-06-2020	14:48	ISTS	At 14:48 hrs 400 kV Rangpo – Kishangunj S/C tripped due to B phase to earth fault. At same time, unit 1 and 2 at Dikchu HEP and unit 2 at Jorethang tripped due to operation of differential relay.	0	161
12	GD-1	29-06-2020	21:53	ISTS	400 kV BRBCL – Sasaram – 2 was under break down due to rectification of tower bending. Unit 1 and 2 were in running condition at BRBCL. At 21:53hrs., 400kV Sasaram-BRBCL #1 tripped on R and Y phase fault. Both the units got tripped due to loss of evacuation path	0	422

- 3) Details of Multiple tripping incidences of transmission line for month of June 2020 is enclosed at **Annexure-1.**
- 4) Details of Single line tripping incidences of transmission line for month of June 2020 is enclosed at **Annexure -2.**

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.

Yours faithfully,

  
(S. Kejriwal)  
MS (IC)

#### **LIST OF ADDRESSES:**

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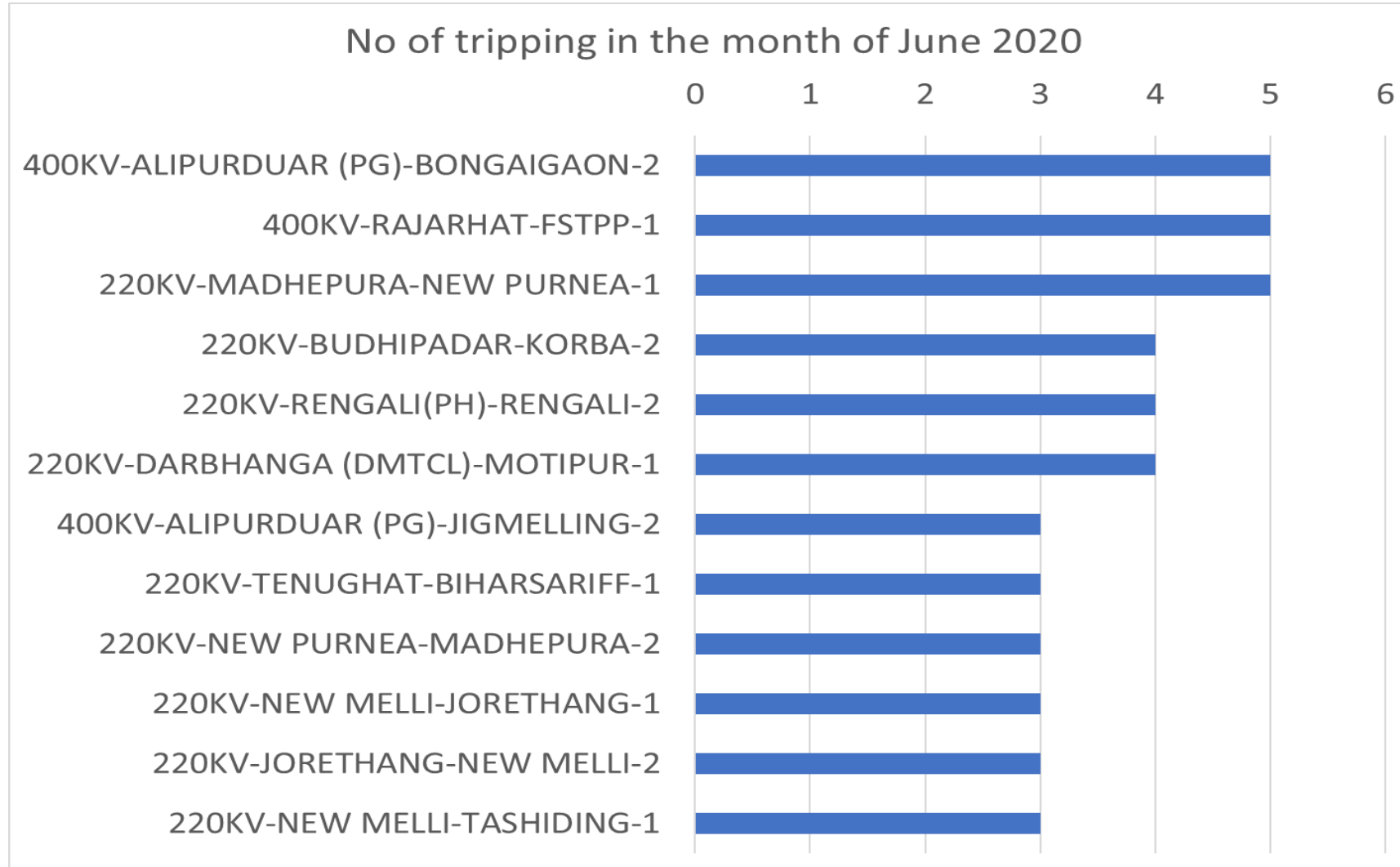
CC:

ASSISTANT SECRETARY, ERPC		
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# Repeated tripping of transmission lines in the month of June 2020

Annexure 1

No of tripping reported for transmission lines having voltage level 220 kV and above and tripped more than two times in the month of June 2020



# Repeated tripping incidents of transmission lines due to same reason during June 2020

Repeated tripping incidents due to same reason		
Name of the line	Reason	No of tripping
400KV-ALIPURDUAR (PG)-BONGAIGAON-2	R phase to earth fault with location 40 - 65 km from Bongaigaon end. 3 tripping incidents with fault distance at 60 - 65 km from Bongaigaon end.	5
400KV-RAJARHAT-FSTPP-1	R phase to earth fault or R & B phase fault at location of 17-23 km from Rajarhat. Line is anti theft charged from Rajarhat end up to 210 km from Rajarhat on 20th June 2020	4
220KV-MADHEPURA-NEW PURNEA-1	B phase to earth fault at 55 - 58 km from Madhepura	3
220KV-MADHEPURA-NEW PURNEA-1 & 2	LBB operation at New Purnea	2
220KV-RENGALI(PH)-RENGALI-2	Two incidents due to differential protection operation at PG end. Line did not trip from other end. During other two incidents, line tripped from Rengali (PH) end only on operation of master trip relay or pilot wire protection relay.	4
220KV-DARBHANGA (DMTCL)-MOTIPUR-1	B phase to earth fault at 81 - 83 km from Darbhanga	3
220KV- JORETHANG - NEW MELLI- D/C and 220 KV NEW MELLI - TASHIDING S/C	During all 3 events, there was a high resistance fault and then it got converted to Y and B phase fault at 220 kV New Melli - Tashding. Directional E/F relay of Jorethang end of 220 kV Jorethang - New Melli D/C detected the fault and tripped. Generation loss occurred at Jorethang and Tashiding	3



