

### भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power **पूर्वी क्षेत्रीय विद्युत समिति**

# **Eastern Regional Power Committee**

14, गोल्फ क्लंब रोड, टालीगंज, कोलकाता-700033 14 Golf Club Road, Tollygunj, Kolkata-700033

Tel No.:033-24239651, 24239654 FAX No.:033-24221802, 24221358 Web: www.erpc.gov.in

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 91st 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-	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		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 <a href="https://www.erpc-protectiondb.in">www.erpc-protectiondb.in</a>.

Your participation in the meeting is highly solicited.

Yours faithfully,

MS (IC)

### LIST OF ADDRESSES:

Chief Engineer, Trans (O&M)	Electrical Superintending Engineer (CRITL)
Bihar State Power Transmission Limited, Vidyut	Bihar State Power Transmission Limited, Vidyut
Bhawan, Bailey Road, Patna-800021	Bhawan, Bailey Road, Patna-800021
Chief Engineer (SLDC)	Chief Engineer (CTC)
Damodar Valley Corporation, GOMD-I Premises,	Damodar Valley Corporation, P.O. Maithon Dam,
P.O Danesh Seikh Lane, Howrah- 711109	Dist. Dhanbad, Jharkhand-828207
Chief Engineer, (CRITL)	Electrical Superintending Engineer (CLD)
Jharkhand Urja Sancharan Nigam Limited	Jharkhand Urja Sancharan Nigam Limited,
Kusai Colony, Doranda, Ranchi-834002	Kusai Colony, Doranda, Ranchi-834002

Chief General Manager (O&M),	Sr. Conoral Manager (DDA) T. 1 . 1 . 1 . 1 . 1
OPTCL, Janpath, Bhubaneswar,	Sr. General Manager (PPA), Technical Wing,
Odisha – 751 022. FAX: 0674-2542932	OHPCL, Orissa State Police Housing & Welfare
cgm.onm@optcl.co.in	Corpn. Bldg. Vanivihar Chowk, Janpath, Bhubaneswar-752022
Chief Load Dispatcher, SLDC	Chief Engineer (Testing), WBSETCL
OPTCL, P.O. Mancheswar Rly. Colony	Central Testing Laboratory, Abbilisher, Calvilla
Bhubaneswar-751017	Central Testing Laboratory, Abhikshan, Salt Lake, Kolkata-700091 (Fax no. 2367-3578/1235)
Chief Engineer (CLD)	Addl. Chief Engineer (ALDC)
WBSETCL, P.O. Danesh Sheikh Lane,	West Bengal Electricity Distribution Company Ltd
Andul Road, Howrah-711109	Vidyut Bhavan, 7th Floor, Bidhannagar, Sector-I
	Salt Lake City, Kolkata-700091(Fax-033-2334-5862)
Dy. Chief Engineer (Testing)/ Sr. Manager (Testing)	General Manager (O&M)
CESC Ltd.,4, Sasi Sekhar Bose Road,	KhSTPS, NTPC Ltd., P.O. Deepti Nagar,
Kolkata-700025	Dist. Bhagalpur, Bihar-813203
General Manager(O&M)	Dy. General Manager (Engineering),
FSTPS, NTPC Ltd., P.O. Nabarun,	WBPDCL, OS Dept. Corporate Office, 3/C, L.A
Dist. Murshidabad, West Bengal-742236	Block,
	Salt Lake-III, Kolkata-700098 (Fax-033-23350516)
General Manager (O&M)	General Manager (OS), ERHQ-II, NTPC Ltd., 3 <sup>rd</sup> flr.
Barh STPS, NTPC Ltd., P.O. NTPC Barh,	OLIC Building, Plot no. N 17/2, Nayapalli, Unit-8
Dist. Patna, Bihar-803213	Bhubaneswar- 751012 (Fax No. 0674-2540919)
General Manager(O&M), TSTPS, NTPC Ltd.,	General Manager (O&M), POWERGRID, Odisha
P.O.Kaniha, Dist. Angul, Orissa-759117	Projects, Sahid Nagar, Bhubaneswar – 751 007
General Manager (OS), ERHQ-I, NTPC Ltd.,	Manager (Electrical), Adhunik Power & Natural
Loknayak Jaiprakash Bhawan, (2 <sup>nd</sup> Floor),	Resources Ltd. "Lansdowne Towers, Kolkata-700020
Dak Bunglow Chawk, Patna-800001	(Fax No. 033-2289 0285)
Executive Director (O&M)	Electrical Superintending Engineer, TTPS,
NHPC Ltd., NHPC Office Complex, Sector-33,	Tenughat Vidyut Nigam Ltd., Lalpania, Dist. Bokaro,
Faridabad, Haryana-121003 (Fax-01292272413)	Jharkhand-829149
Dy. General Manager (Electrical)	General Manager (OS), ER-I
IB Thermal Power Station, OPGCL	Power Grid Corporation of India Ltd.,
Banhapalli, Dist. Jharsuguda-768234, Orissa	Alankar Place, Boring Road, Patna-800001
Chief Engineer (Trans.)	Sr. Manager (CTMC)
Power Deptt., Govt. of Sikkim, Gangtok-731010	Durgapur Projects Limited, Durgapur-713201
Executive Director,	Head Construction, ENCIL, Siliguri-7340051
ERLDC, POSOCO, Tollygunge, Kolkata-700033	
General Manager (OS), ER-II	Shri A.K.Nayak/Shri Sumit S Ghosh
Power Grid Corporation of India Ltd.,	Maithon Power Limited, Maithon Office, MA 5
J-I-15, Block-EP, Sector-V, Salt Lake, Kolkata-91 General Manager (P&O), PTC Ltd.,	Gogna, Dist. Dhanbad, Jhankand State, PIN-828207
Kanchanjunga Bldg., 18, Barakhamba Road,	Vice President, Vedanta Ltd.
New Delhi-110001	1st Floor, Module C/2, Fortune Tower, C S Pur,
Managing Director, Bhutan Power Corporation	Bhubaneswar- 751023
Post Box no. 580, Thimpu, Bhutan.	Managing Director, Druk Green Power Corprn.
General Manager, Darbhanga (Bihar), Darbhanga	P.O. Box-1351, Thimpu, Bhutan.
Motihari Transmission Company Limited (DMTCL)	Shri Brajesh Kumar Pande, Plant Head, JITPL.
Shri D. P. Bhagava, Chief Consultant (O&M), Teesta	(FAX:011-26139256-65)
Urja Limited, New Delhi (FAX:011-46529744)	Director (GM Division), Central Electricity Authority
Director (NPC), CEA, NRPC Building, Katwaria	Sewa Bhawan, R. K. Puram, New Delhi-110066
Sarai, New Delhi- 110016	President, Dans Energy Pvt. Ltd, 5th Floor, DLF Building No. 8, Tower-C, Gurgaon - 722OO2
Director, Shiga Energy Pw. Ltd., 5th Floor, DLF	DGM (F&I) HAI DIA ENERGY I MITTER DARK
Building No. 8, Tower-C, Gurgaon - 722002	DGM (E&I), HALDIA ENERGY LIMITED, BARIK
,	BHAWAN, KOKATA-700072, FAX: 033-22360955

# CC:

# 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)-	R phase to earth fault with location 40 - 65 km from Bongaigaon end. 3 tripping									
BONGAIGAON-2	incidents with fault distance at 60 - 65 km from Bongaigaon end.	5								
	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									
400KV-RAJARHAT-FSTPP-1	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								
	Two incidents due to differential protection operation at PG end. Line did not trip									
220KV-RENGALI(PH)-	from other end. During other two incidents, line tripped from Rengali (PH) end									
RENGALI-2	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								
	During all 3 events, thre was a high resistance fault and then it got converted to Y									
220KV- JORETHANG - NEW	and B phase fault at 220 kV New Melli - Tashding. Directional E/F relay of									
MELLI- D/C and 220 KV NEW	Jorethang end of 220 kV Jorethang - New Melli D/C detected the fault and									
MELLI - TASHIDING S/C	tripped. Generation loss occured at Jorethang and Tashiding	3								

				Annexure 2 Li	st of important	transmission lin	es in ER	which tripped in JUNE-2020						
S.N O	LINE NAME	TRIP DATE	TRIP TIME	Relay Indication LOCAL END	Relay Indication REMOTE END	Reason	Fault Clearance time in	Remarks	PMU Location	DR/EL RECEIVED FROM LOCAL END	DR/EL RECEIVED FROM REMOTE	Utility to update	Utility Response	ERLDC Comment on Utility Response
1	23804-GHM06-RANGI-4	6/1/2020	16-29	Ranchi: 844, 25-76m, 4.146A	Chandil: 9-N, 72Km, 135-8Ka	R-N fault .	msec 100	manaient fault in Rybase then after 500 ms again half in Vybase and Ine supped .	Ranchi	YES	YES	Powengrid ER-1 , sharkhand		
2	ADDIEY-GSTIPP-MANLDAJPG)-1	6/1/2000	0:57	Y-N FAULT,22,43.20 KM,4.7KA	55799: VN,21,F0 0.2 RM,46KA	V-N fault .	<100	Une tripped in reclaim time .DR pole status showing all 2 phase breaker opered during dead time but it is not the case as next 2 phase RBR were intact.	Farakka	NO	YES	PG ER-II		
a	220H/-4ENGALIPH)-TSTPP-1	6/2/2020	15:32	20NE-1 RJR FD-16-9KM FC- 6-2 KM	As per PMIU only 8 ph fault		160	No A/R operation As all 3 phase breaker opened after 160 ms.	TALCHER	NO	VES	OPTCL.		
4	220KF-BUDHEPADAR-KDRBA-2	6/2/2000	11:25	1-N-21 , FD+ 147-0 Kms, d[N]-91-24, H2+ 1-17 KA	Karba-Zone-I Y-N F0+13-35 Ems by-930 BAmp	V-N fusit	900	2-2 picked up but line tripped in 2-3 time reason may be explained	ROURISILIA	WES	NO	OFTCL.		
s	220KY-MACHEPURA-NEW PURNEA-1	6/2/2000	13:51	Madhegura S-N, 21, S8.1km, 1196A	Purnes : 9-N, 94.7 Km, 1.98 KA	D-M FALICT	100	As per DR R BY phase clid not opened at purros and .No A/R operation observed .Independent pole status not configured wide.Status of A/r at madhapura.	PURAEA	NO	YES	PG ER-1 (REPTICL		
٤	220KY-BUDHEPADAN-KORSIA-3	6/2/2000	11:16	Direct trip received		No dip observed in PMU.	4/9/1900	No dip observed in PMILINITY DT received may be explained .	ROURKELLA	NO	NO	GPTCL		
7	2200's Tenughat Bharsarff-4	6/2/2000	6:11	BHARSARF: B-N, 9GKM, 1.SKA	TENUGHAT: 9-N; 92KM, 1.7KA	D-N FAULT	<999	Why I phase tripping occurred in case of single phase fault. Your AJR disabed JR phase breaker transs showing as opened prior to fault. Satuteus of AJR at Tenughat.	BHARSHAREF	NO	YES	BSFTCL, JAUSING		
8	ecoru-rocgram-rehars-reff-pro- 4	6/5/2000	20:14	R_N, 217 KM (Koderma)- Line length 110 KM		O/V STAGE -2	<200	While A/R was attempted very high voltage in healthy phases of Rand's phase observed which caused O/V stag -2 operation	BHARSHAREF	NO	YES	PG SR-1, DVC		
٠	400EV-MAITHON-KHSTPP-2	6/5/2000	16:08	DT RECEIVED AT MAITHON		O/V STAGE -2	<200	At the same Sime A/R was successful in Yiphase kahulgaon- braikka N Jine which caused severe Q/V in thirtipp-Malahon-2	KAHALGACIN	YES	YES	NTPC KAHALGAON		
20	2200Y-9USH89ADAR-6DRA-2	6/9/2020	1251	Budhipadar b-n, 121 km,1.28ka	z1,b-n,42.72 km,2.062 ks from korbs	D-N FAULT	160	a-38a-3 stanted at Buddiguider and Current became area after side min., 300x6 Sed VOLTAGE IS TAXON 6x 19 No line, pole opening status is not observing in DE States of A//R 2	ROURIGILA	WES	NO	OFTCL.		
11	22066-TTP-6-TSTPP-4	6/9/2020	15:29	R_N, S.G NA, 20 KM (TTPS)	R, N, 1276 KA, 27 KM (TSTPP)	D-N FAULT	<100	Breaker status may be configured in DR. What votage input has been selected line or But as , line voltage of R and Y phase are showing healthy voltages.	TALCHER	WES	NO	TSTPS		
12	400EV-NLPURDUNR (PG) 9CWGNGACM-2	6/9/2020	14:43	APL 95.5 KM, R,N, 22, 1.864 KA	BNG R_N, 52.5 KM, 5.06 KA, 21	R-M fault .	600	Avaion for delayed tripping may be explained. Pmu shows 600 on Built clearance time.	ALPURDWAR	NO.	NO	PG, SR4I		
13	220EV-BOLANGIRIPG) 6A0GPAS-S	6/10/2020	16:52	Sadelpalli : R.ph., 1.47 Kim, 1.02 KA		R-N fault.	<100	No Afroperation.	PANENABLLY	NO	NO	OPTCLPGGR-2		
54	220KY GARBHANGA (GMTCL)-MCTIPUR-1	6/10/2020	10:54	Darbhangs-21, 9-N FO- 28.7km FC-2.95	Motipue-21, 9-N FC- 0556kA	S-N FAULT	<100	ha Afrik abowed whether AfR operated or not as Time frame is not sufficient in DR for AfR observation.	Muzzafferpur	NO	YES	OMTCL,86PTCL		
15	400KF-BINAGUR-ALIPURINJAR (PG)-2	6/10/2000	13:11	Binaguri Y-N FD-71.56km FC 4.62kA	APD Y-N 21 FD-70km FC- 4.088kA	Y-NLFALLET	<100	A/Runsuccessful in 8 phase after unsucceedul A/R Line voltage was showing till 2 seconds, reason may be explained 1	SIJGURI			PG DR-2		
16	220KK-ATRI-PANDNARU-2	6/10/2000	11:50	LRB protection Operated, BSA Trip Relay Operated, BSB Trip Relay Operated.		No fault abserved in PMU		No DR received,No fault observed Reason for tripping may be explained.		NO	NO	OPTCL		
17	edderi-kupurdorar (PG) bongangaon-2	6/11/2020	6:33	R-NJ2/carrier received 2.166 KK ,95.6 km, from slipurduar	R-N,21,40.3km,5.4 KA at bongsigson	R-M fault .	500 ms	Delayed cliesrance observed , Fault was in 2-2 of APO although corner received back 5-pole tripping occurred and line opened after 2-2 time. Lineaccessful API observed at Bonagignon end.	SILIGURI	WES	NO	PG DR-2		
18	765ey-dhabaaningabh inabsligilda-1	6/11/2000	14:07	DT received at sharraguda	Biphase CT flashover in Main bay of thorsuguda-i at Daramjaigath	D-N FAULT	10/26/1900	Recon for delayed clearance may be explained. No Dr received	SHARSUSUDA	NO	NO	PG DR-3		
29	22009-TRIUSGHAT 88HARSAREF-1	6/12/2020	12:66	, land&6.7 A, lbn326.5 A, lcn 220.2 A at Tenughan	8-1KA	R-N fault	1500	heads for downcrose of current in 8 phase may be made with most of the control of the control of the made with most of the CP, 8 phase hours or 1 still not consult properties that still for committee of the control of reposed trates still in control of of investigations to like tropped on which protection not clear 70 or what ?	BHARSHAREF	WES	VES	BSFTCL, INVINL		
20	220EV-9ENGALIPH)-BINGALI-2	6/12/2020	5:30	ON PROT WIFE PROTECTION RELAY OPERATION, at rengal	no trip at rengali pg end			No Sult in PAYL/Recon may be explained.	TALCHER	NO	80	OFF.CL.		
21	230er - Gogaliphi, Borgali 2	6/13/2000	0:39	Master trip relay operated at Rengali PH	Line charged from PG end			No Guit in Philo Recon may be explained.	TALCHER	NO	NO	OPTCL.		
22	200KF-RUCHPADAN-KORBA-3	6/14/2000	4:09	22,V- N,254.6Km,1.25KA@Budhip adar		Y-N Fault	400	From Ruddpader line tripped in 2-2.5eems no carrier based protection.				OPTCL.		
23	230KF-KATAPALLI-BOLANGIRIPG -1	6/15/2000	10:45	EM .	BN , 28 KM , 15 KA	D-N FAULT	<200	Breaker of all three phase opened from katspall end within 500 No of fault, whether Carler based protection is there or not? Line voltage become zero after 1 second of the breaker opening.	280908	YES	NO	OPTCL		
24	ADDRY-RANCH-SPAT-2	6/15/2000	7:54	B-N:FD-361.28M@FC-1.5KA		S-N FAULT	<100	After successful A/R OT received at Ranchi and Tripping incident after successful A/R not present in OR.	RANOH	YES	NO.	PG DR-1		
25	220KF-WAITHON-DUMKA-S	e\re\2000	12:42	a/r succeedul at maithon ,675 KA RN;cone 1 34.3 km ,weather bad	zone 1, 248 km, A- N, irv1.79 ka iyv190 A, i8v502.7 A	R-N fault	<100	A/R succeeds from Mathon end Jac at the instant of built 2 phase tripping at Dunks end Whether A/R feature is evalually at Dunks and If on the J phase tripping coursed tribuna's phase Pole opening status is not configured in Or at Dunks.	MATHON	YES	YES	aves.		
36	10001-anarnagarquecq pritna-1	6/17/2020	15:14	Y_N Fault, 9 IA/ Q/V St II (N9GQ)	Q/V st il (Patna)	Q/V STAGE -2	<100	initially there was Y-Nrfault in the line and Y-phase broker opered intends for a threship or of opening of broker several opening of broker several opening of the ST of Y-Nrfault or one opening of the ST of Y-Nrfault Of Y-Nrfault or opening on a ST of Nrfault or Office of the ST opening of the ST of Y-Nrfault or Office of This may please by explained.	PAZNA	WES	NO	PG ER-d , NPGC		
27	220KY GARBHANGA (OMTCL)-SAAAGTOPUR-1	6/33/3000	11:32	B-N,FD 25-2KM FC 1 829 KA@DARBHANGA		B-N FAULT	<100	Secons Road Y phase were closed during dead time but when did they get opened not in the DR farme of 11 sec. Was A/R successful from DRFCC and Ja there A/R entirely a Samustipu	Muzzafferpur	WES	NO	OMTCL,86PTCL		

28	220EY-MIZZAFFARPUR-CHALESBAR-S	elasiamo	18:23	r ph DSF 368 A st Mazaffarpar	in li phase at dhalkebar	R-N fault .	2.5 sec	Riphase current was around 500 amps for 2.5 sec after which 2 phase tripping occurred. Directional of creting may be shared. Assocn for delayed tripping may be shared was it as per CO/C setting ?	Muccofferpur	YES	NO	PG DR-1	
29	220W-ANJZAFFARPUR-CHALKERAR-2	elasiamo	18:23	r ph OSF 365 A st Mazziffarpur	in li phase at dhalkebar	R-N fault .	2.5 usc	R phase current was around 700 amps for 2.5 or after which 3 phase tripping occurred. Directional of creeting may be shared. Reason for delayed tripping may be shared was it as per DO/C setting 2	Muzzafferpar	YES	NO	PG Sk-1	
30	220EY-QARBHANGA (DMTCL)-DARBHANGA 2	6/25/2020	21:31	E/F, B-N, 2KA		B-N FAGET	<900	Pole status not configured in DR A/R not observed in DR time frame /AR sphase breaker were disend from DMFGC and SII DR State time. When did the opened whether A/R attempted toom DMFGC and state state of A/R at Silver and	Muzzafferpar	WES	NO	DMTCL,869TCL	
31	400W-GAYA-MARINAGARINPGC)-1	6/35/3000	17:03	R,N		R-N FAULT	<:000	Seems A/R was off so 2 phase stipping occurred at the instant of fault stips A/R under planned 5/D.	GANA	WES	NO	PG DR-1	
32	220°C 46GUSARAI NEW PURNISA 1	6/25/2000	17:15	R,N, 1.2 kA (Regusarsi)		R-N FAULT	<900	Whather A/R operated or not ?	PURNEA	NO	NO	PG SR-LBBSPTCL	
22	220N/KISHANGANI[PG]-DALKHOLA [PG]-1	6/25/2020	621	R-N,2 KM,54.5KN@KISHANGANI		R-N FAULT	<900	Yand 8 phase opened after 1.5 seconds at diskhola end whether due to Pole descregancy , Seems A/R was not enabled 3 phase tripping occurred from kishanganj at the instant of fault and carrier was seet; then why delay of 1.5 second at halinah and 20 min a 20 min ha riverified.	KSHANGANI	YES	YES	PG ER-18 WESETCL	
34	220EF-ESHANGANUPG) GALBHOLA (PG) 3	6/05/2000	15:37	R_N, 21 KW, 4 kA (Oslobols)		B-N FAULT	<900	A/Rwas successful from Kishangani end but from Dakhola end 3 phase stopping cocumed at the lessant of fluid; this may be explained "shrether A/R is disabled at Dakhola.	KISHANGANI	WES	YES	WIRETCL	
25	220EY-GARBHANGAJOMTCL] +ACKKHH-1	6/05/2000	6:32	LAUKAH: R-N, 21, 2.9KA, 20.5KM	DAR: R-N,FD GOXM,FC 2.542KA	R-N FAULT	<900	2 Place tripping occurred for single phase fault at CNATC, and that mass A,R is not exabled may replain this J4 Euclash and A,R is close occurred, what is the status of A/R at Euclash may be explained. Palle status is not configured in Dr.	Muzafferpur	WES	YES	DMTCL,RSPTCL	
36	ACCIEV-MISERAMUNDALI-GAVII- S	6/26/2020	18:43	Mera-Only DT received		No fault observed in PMU		Reason of why DT send may be explained .	ANGUL	WES	NO	PG_(SR-3	
27	400W-GAYA-MARINAGARINPGC)-1	6/36/3030	10:44	NPGC 21 R-N FC-G-SkA Dist- 25km	Gaye-01 received	R-N FULT.	<:000	For single phase fasier, 2 phase tripping with OT receipt at Gaya and from NPGC, 38 torse A/R was situated at NPGC.	GANA	WES	NO	NPGC	
38	220W-MACHEPUSA-NOW PLRNEA-1	6/36/3030	8:55	Mathepura-2-1,8-ph trip,0at-65-8km, ib-1,596kA	Pumea-A/R succedul	D-N FAULT	<900	why A/R not operated at Mathepura Status of A/R	PURNEA	WES	NO	RSPTCL.	
39	400EV-GHSTPP-LAKHISARA-1	6/36/3030	7:17	LAICT-N, FO 99.80KM, FC 2.12KAA, PR SUCCESSFUL AT LAICHEARNI END	JOHETPP: YNUFD 45.78MFC 8.278MFC 8.278MFCBPFED FROM BIKETPP END	V-N FADILT	<900	Why A,R not operated from Kahalgoon end DR time frame does not cover A/R State. Prior PMUI it seems it and it phase breaker operad day's records opera, whether due to PD or assembling file may be explained.	BHAKSHAREF	YES	NO	NTPC KAHALGAGN	
40	400KF-9ANIOH-MATHON 88-1	6/27/2020	12:49	Y_N; 110 KM, 2.35 kA [Makhon RB]		Y-N FALSET.	<900	AFE successful from Stands' and only Why AFE not occurred at MPC and Secondary arching Issue discreted even after selecting of plass breaker. If place voltage event upto more than 600 Ev.	RANCHI	WES	NO	MPLER 1 PG	
41	2200V-TRASCHAT-BRABSARFF-1	6/27/2020	9:55	21, Y-N, 1,767KA, 7625Km	111.96m, Y-M, 1.46A	Y-N FAULT	<900	2 Phase tripping occurred for single phase fault at Teighat end Semma AT not evabled ATR status and individual pole status not configured in DR.	BHARSHAREF	WES	NO	arms.	
42	22009-GHANDE-RANCH-1	6/38/3030		Chandil-32 R-N FO-82-38km		R-N FAULT.	350	A/R tucceutal from Ranchi and "Chandil and tripped in zone -2 seems there is no carrier aided tripping scheme .	RANGHI	WES	NO	PG SR-1 , JVUNL	
43	220KV-NEW PURNER-MACHEPURA-2	6/28/2020	4:23	A/R SUCCESSFUL AT NEW BYONEA BAY 10 PM 6-70 VA	71.4 KM,R-N,2.2 KA FROM MATHICOIDA	R-N FAULT.	<900	why A/R not operated at Madhepura .Status of A/R	PURNEA	YES	NO	BSFTCL	
44	220KY-GARBHANGA (GMTCL)-MOTIPUR-1	6/29/2020	13:50	B-N,2-1,F,IC-2.3KA F,ID- 3SKM FROM MOTIPUR	B-N,2-1,5/C-1.7KA F/D- S1KM FROM DARBHANGA	B-N FAULT	c200	A/R was enblied still 3 phase tripping occurred at motipur end this may be explained .	Muzzefferpur	NO	<u> 985</u>	RSPTCL	
45	220KY-MACHEPURA-NEW PURNEA-1	6/30/2020	11:20	madhepura: 9-N, 21, 1.47 KA 55.6 Km.	A/R SLICCESSFUL SO 3 KM 2.24 KA ZA IN NEW PURNEA	B-N FAULT		why A/R not operated at Madhepura Status of A/R. Or time not sufficient for AR observation.	PURNEA	YES	80	RSFTCL.	