Grid Occurrences – 147

*For all tripping events, concerned Constituents are requested to furnish to SRPC Secretariat, by **01.10.2026** a WORD format file of the detailed analysis of the events along with SLD or equivalent pictorial representation clearly showing (i) Location of the fault, and (ii) Bus-bar arrangement/ Configuration of feeders and other connected equipment with proper CB positions (OPEN/ CLOSE) at the time of occurrence of the fault along with records of Event loggers, Disturbance recorders. The same shall be presented by the respective Utilities in the meeting.*

*SRLDC is requested to furnish PMU plots of all tripping events to SRPC Secretariat by **01.10.2026** and present the same in the meeting.*

I. Details of Grid Disturbances

S. No.	Event	Event Analysis	Outage Date & time	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Date of receipt of Draft Report/ Updated draft report from SRLDC	Date of receipt of User Detailed report	SRLDC furnished revised Report after considering the User Report
1	Complete Outage of 220kV Chintur of APTRANSCO and Bus-2 outage of Lower Sileru of APGENCO	In the antecedent conditions, 220kV Chintur-BG Kothur was under planned outage and due to Bus spilt at Lower Sileru where in Bus-2 was connected to 220KV-ASUPAKA-LOWER_SILERU-1 and 220KV-Chintur-LOWER_SILERU-1. Hence, 220kV Chintur SS and 220kV Bus-2 of Lower Sileru was radially connected through 220KV-ASUPAKA-LOWER_SILERU-1. The triggering incident is the B-G fault in 220KV-ASUPAKA-LOWER_SILERU-1 line where in	25-08-2026 12:53	0	3	GD - 1	25-09-2026	24-09-2026	Considered

		at Asupaka end, the fault was sensed in Z2 and Z2 time tripped. Tripping of the line led to the Complete Outage of 220kV Chintur of APTRANSCO and Bus-2 outage of Lower Sileru of APGENCO							
2	Complete outage of 230kV Echur of TANTRANSCO	In the antecedent condition, 230kV Echur-Arani line was under planned shutdown and 230kV Echur was radially connected to 230kV MAPS-Echur line. As per the reports submitted, the triggering incident is the Y-G fault in the line and the line tripped. Tripping of the radial line led to the complete outage of 230kV Echur of TANTRANSCO	28-08-2026 13:23	30	24	GD - 1	06-09-2026	30-08-2026	Considered
3	Complete Outage of 220kV Upper Sileru PH of APGENCO	During antecedent conditions, all 220kV lines were connected to 220kV Upper Sileru Bus-1 at 220kV Upper Sileru PH and all units are connected to 220kV Bus-2. As per the reports submitted, the triggering incident was B-G fault in 220kV Upper Sileru Balimela line. At Upper Sileru end, zone-1 protection operated but B-pole failed to open. Immediately, 220kV LBB operated and all the elements connected to 220kV Bus-1 tripped. This led to complete outage of 220kV Upper Sileru PH.	05-09-2026 14:06	0	0	GD - 1	25-09-2026	28-09-2026	Not Considered
4	Complete outage of 230 kV KILPAUK, 230 kV ATHIPATU of TANTRANSCO and 230 kV NCTPS of TNPGCL	230 kV Kilpauk, 230 kV Athipattu 1& 2 are radially connected with 230 kV NCTPS station. 230 kV Tondiarpet-NCTPS 1&2 was under outage during the event. As per the reports submitted, around 23:21 230 kV NCTPS-Kilpauk line 3 phase tripped at both ends upon	07-09-2026 23:32	194	0	GD - 1	17-09-2026	09-09-2026 10-09-2026	Considered

		sensing B-G fault in Z1. Around 23:32 Hrs, 230 kV Gummidipondi-NCTPS line tripped due to R-G fault, then 230 kV NCTPS-Sriperumbadur line also tripped due to Y-G fault. During the same time Unit-1 & Unit-3 tripped on turbine protection and over frequency protection operation. After 13 minutes (for house load operation) Unit-2 also tripped due to turbine trip protection. These trippings led to complete outage of 230 kV NCTPS, 230 kV Kilpauk and 230 kV Athipatu stations.							
5	Complete Outage of 220 kV Ramavaram SS , 220 kV Bavojipeta SS, 220 kV Rampachodavaram SS and 220kV Vepakayaladibba SS of APTRANSCO	During antecedent conditions, 220 kV Bavojipeta-Purushotapatnam line 1 & 2 and 220 kV Bommur-Vepakayaladibba line were under outage during the event. 220 kV Bavojipeta SS was radially feed from 220 kV Bommuru SS and 220 kV Rampachodavaram SS, 220kV Ramavaram SS, 220kV Vepakayaladibba SS were radially fed from 220 kV Bavojipeta SS. As per the reports submitted, a B-G fault on the 132 kV Ramavaram–Peddapuram-I feeder resulted in Z3 operation at Bommur due to a stuck circuit breaker mechanism. Consequently, the 220 kV Bommur–Bavojipeta line tripped three-phase at the Bommur end, leading to the complete outage of the 220 kV Bavojipeta, Rampachodavaram, and Ramavaram substations.	10-09-2026 11:28	0	160	GD - 1	24-09-2026	23-09-2026	Considered

6	Complete outage of 220 kV Vizag SWS of APTRANSCO	As per the reports submitted, the triggering incident was failure of B-phase CT in 220kV Vizag SWS Gangavaram line causing fault in 220kV Bus-2 of Vizag SWS. Immediately, 220kV Bus-1 and Bus-2 operated tripping all elements connected to the buses which further led to complete outage of 220 kV Vizag SWS.	14-09-2026 04:57	0	0	GD - 1	-	-	-
7	Complete Outage of 220kV Lingapur SS of KPTCL	During antecedent conditions, 220kV Lingapur Bus-2 was in idle charged condition and all elements were connected to 220kV Lingapur Bus-1. As per the reports submitted, the triggering incident was jumper cut between CT and CB in 220kV Jindal Lingapur Line-1 and the jumper fell on 220kV Bus-1 causing RYB fault in 220kV Lingapur Bus-1. This led to tripping of all lines connected to 220kV Lingapur Bus-1 which further led to complete outage of 220kV Lingapur SS	14-09-2026 14:03	0	0	GD - 1	-	-	-
8	Complete Outage of 220 kV Kadra PH of KPCL and 220kV Karwar SS of KPTCL	220 kV Kadra-Kodasalli line was under outage during the event. 220 kV Karwar SS was radially feed from 220 kV Kadra SS and 220 kV Kadra PH was radially fed from 220kV Kaiga Kadra line. As per the reports submitted, the triggering incident was B-G fault in 220kV Kaiga Kadra line and the line tripped. Tripping of the only connected line led to complete outage of 220 kV Kadra PH which in turn led to complete outage of 220kV Karwar SS.	15-09-2026 11:13	0	56	GD - 1	23-09-2026	17-09-2026	Considered

II. Details of Grid Incidents

Grid Occurrences to be discussed during 147th PCSC meeting to be held on 05.10.2026

S. No.	Event	Event Analysis	Outage Date & time	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Date of receipt of Draft Report/ Updated draft report from SRLDC	Date of receipt of User Detailed report	SRLDC furnished revised Report after considering the User Report
1	Tripping of 220kV Bus-1 of 220kV Sharavathy PH of KPCL	As per the reports submitted, the triggering incident was B-G fault in 220kV Sharavathy Belgavi line. At the same time, Sharavathy Unit-6 tripped on over current protection maloperation, but the Unit-6 breaker failed to open. This led to operation of Unit-6 LBB and all elements connected to 220kV Sharavathy Bus-1 tripped. This led to loss of power supply to 220kV Bus-1 of 220kV Sharavathy PH	12-09-2026 01:59	488	0	GI-1	23-09-2026	16-09-2026	Considered

III. Single/Multiple Element Tripping with Protection Violation

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	220KV-PAVAGADA_PG-IRCON_PVG_S-2	As per the reports submitted, the triggering incident was the zero value of R phase CT current at IRCON Pavagada end. This triggered the line differential protection of the 220kV-	01-08-2026 13:26	**PVG_IRCON_S** : 1. CT issue at Pavagada IRCON end needs review.	

		Pavagada_PG-IRCON_PVG_S-2 line at IRCON end and line R phase tripped at IRCON end only.			
2	400KV-GAZUWAKA-JEYPORE-2	As per the reports submitted, 400 kV-Gazuwaka-Jeypore-2 line tripped at Gazuwaka end due to TEED relay hanging issue.	23-08-2026 22:47	**PGCIL SR-1** : 1. Maloperation of TEED relay leading to the tripping of the line needs review	
3	220KV-KUDGI_NTPC-BILAGI-1	As per the reports submitted, the triggering incident was the tripping of the 220 kV Bilagi–Kudgi Line-1 on non-directional OCR, with 86A and 86B relays operating at Bilagi end. The suspected cause was an issue with the line CVT selector switch with a VT fuse failure. At the Kudgi end, the line was in service.	24-08-2026 06:25	**KPTCL** : 1. Tripping of the line on non-directional overcurrent protection needs review 2. VT fuse failure during the event needs review	
4	Multiple trippings at 400kV Salem_TN	As per the reports submitted, prior to the tripping ICT-4 was in service through Tie CB and it was not connected with Main CB due to maintenance work. During charging of main CB with ICT-4, it got tripped due to REF protection. ICT-5 tripped Winding Temp Trip Protection after overloading due to tripping of ICT-4 in Salem Substation.	24-08-2026 17:20	**TANTRANSCO** : 1. Tripping of the transformer on REF protection needs review.	**TANTRANSCO** : 1. REF trip kept discontinued in Tpro relay & rewired and enabled in GE_T60 relay & functional test conducted. Alarm enabled & under observation
5	420KV/20KV MEPL-GT-3	As per the reports submitted, 420KV/20KV MEPL GT 3 got tripped due to Inter trip from UST3 Master trip related to UST3 OLTC PRV Yph operated. OLTC PRD cables IR checked and found ok the PRV limit switches inspection	27-08-2026 05:10	**MEPL** : 1. Tripping of the GT-3 needs review	**MEPL** : OLTC PRD Limit switches replaced with new limit switches and its cable also new cable laid up to marshalling panel and after replacing the limit

		done and its contacts checked and suspected on limit switches.			switches the Mechanical protection operation also verified Now taken back in service GT3 charged back at 12:34 hrs
6	Tripping of 220kV Kudgi Bilagi Line-1&2	As per the reports submitted, the triggering incident was a Y-B-G fault in the 220 kV-Kudgi_NTPC-Bilagi-2 line due to Y-phase jumper becoming disconnected and touching the tower body at Tower No. 16 from Kudgi end. At Kudgi end fault was sensed in Z1 and 3 phase tripping was observed, and at Bilagi end fault was sensed in Z2 and Zone 2 time tripping was observed after 378 ms because no carrier was received at Bilagi end. During the same time 220 kV-Kudgi_NTPC-Bilagi-1 also tripped only at Bilagi end due overcurrent protection at Bilagi end.	27-08-2026 09:40	**KPTCL** : 1. Overcurrent protection operation of 220KV-KUDGI_NTPC-BILAGI-1 at Bilagi end needs review. 2. Non receiving of carrier at Bilagi end for 220KV-KUDGI_NTPC-BILAGI-2 needs review.	
7	765KV/400KV NCPS-ICT-3	As per the reports submitted, 765KV/400KV NCPS ICT 3 got tripped in the LV side on DC Earth fault after actuation of 86AL master trip relay. On inspection, it was found that the fault occurred due to defective core in interconnecting cable.	28-08-2026 19:46	**TANTRANSCO** : 1. Tripping of the ICT due to DC earth fault needs review	**TANTRANSCO** : 1. Defective wire was replaced with spare
8	400KV/230KV KORATTUR-ICT-2	As per the reports submitted, 400KV/230KV KORATTUR ICT 2 got tripped due to Buchholz relay operation after squirrel entry into the transformer Marshalling Box.	29-08-2026 07:37	**TANTRANSCO** : 1. Tripping of the ICT due to Buchholz maloperation due to rodent entry needs review	**TANTRANSCO** : 1 Buch relay checked & found No gas collection. 2 DGA test conducted & found normal 3 Gap near OTI & WTI cable

					entry point sealed
9	Tripping of 220KV-RAMAGUNDAM-MALYALAPALLI-4 during fault in 220KV-RAMAGUNDAM-MALYALAPALLI-3 (RAMAGUNDAM ICT-5)	As per the reports submitted, the triggering incident was a B-G fault in the 220KV-RAMAGUNDAM-MALYALAPALLI-3 feeder which is extended to 400kV/220kV Ramagundam ICT-5. At Malayapalli end the fault was sensed in Zone 2 and the line tripped after 350ms. At Ramagundam end, the fault was sensed in Z1 after tripping of the line at Malyalapalli end and the line tripped. A/R did not operate at both ends as A/R is disabled. At the same time, 220KV-RAMAGUNDAM-MALYALAPALLI-4 tripped only at Malyalapalli end on zone-4 protection.	29-08-2026 12:41	**TGTRANSCO** : Tripping of 220KV-RAMAGUNDAM-MALYALAPALLI-4 for fault in 220KV-RAMAGUNDAM-MALYALAPALLI-3	
10	Tripping of 220 kV-KUDGI-BILAGI 1& 2	As per the reports submitted, the triggering incident was a R-G fault in the 220 KV Kudgi-Bilagi-2 line. At Bilagi end fault was sensed in Z1 with some delay line tripped at Bilagi end in all three phases without any A/R operation, at Kudgi end fault was sensed Z1 and R pole got opened. At Kudgi end A/R successfully operated and line tripped on persistent fault. During the same time 220 kV Kudgi-Bilagi-1 line also tripped only at Bilagi end due to overcurrent operation for the R-G fault in the 220 kV Kudgi-Bilagi-2 line.	31-08-2026 04:17	**KPTCL** : 1. Overcurrent operation at Bilagi end in 220 kV Kudgi-Bilagi-1 due to through fault in 220 kV Kudgi-Bilagi-2 needs review. 2. Non operation of A/R at Bilagi end due to R-G fault in 220 kV Kudgi-Bilagi-2 needs review.	**KPTCL** : 1. M2 relay logic configuration issue was resolved
11	400KV-ALAMATHY-SUNGAVARACHATRAM-2	As per the reports submitted, the triggering incident was B-G fault in the line. At Sungavarachatram end, the fault was sensed in	01-09-2026 13:47	**TANTRANSCO** : 1. Delayed fault clearance during at	

		Z1 and B pole got opened and A/R operated successfully and tripped due to subsequent B-G fault during A/R reclaim time. At Alamathy end, the fault was sensed in carrier aided Z2 and B pole got opened A/R operated successfully and the fault was sensed in Z2, but since the carrier time has elapsed (since Z1 operated at remote end a bit earlier) led to the tripping at Alamathy end on Z2 time trip after around 400ms.		ALAMATHY end during AR operation needs review	
12	400KV-ALAMATHY-SUNGAVARACHATRAM-2	As per the reports submitted, the triggering incident was B-G fault in the line. At Sungavarachatram end, the fault was sensed in Z1, B pole got opened and after successful A/R operation the line tripped on persistent fault. At Almathy end, the fault was sensed in Z2 only after the Z1 was sensed at remote end and breaker opened at remote end (and the carrier receipt was elapsed) and the line tripped in all three phases because of Zone 2-time trip after 400 ms.	02-09-2026 15:57	**TANTRANSCO** : 1. Delayed fault clearance during the event needs review	**TANTRANSCO** : Tree Clearance done at loc 108 & 109
13	400KV-ALAMATHY-TIRUVALAM_TN-2	As per the reports submitted, the triggering incident was an R-B-G fault in the line due to a jumper cut. At Alamathy end, the fault was sensed in Z1, resulting in three-phase tripping of the line, and a carrier signal was sent to the remote end. At Tiruvalam end, initially, an R-G fault was sensed in Z2; however, the carrier signal was not received, and the fault was cleared without tripping any pole.	03-09-2026 06:42	**TANTRANSCO** : 1. Non receipt of carrier at Tiruvalam end needs review. 2. 3 phase tripping after sensing R-G fault needs review 3. Non-operation of A/R at Tiruvalam end needs review.	**TANTRANSCO** : Jumper cut attended at Loc No.146

		Subsequently, another R-G fault was sensed in Z1 at Tiruvalam end, resulting in three-phase tripping.			
14	400KV/220KV KADANDALE-ICT-1	As per the reports submitted, the 400 kV/220 kV Kadandale ICT-1 tripped due to REF protection operation during a through fault on the 220 kV Kadandale–Bajpe Line-1, attributed to a CT polarity issue.	05-09-2026 21:12	**KPTCL** : 1. REF protection triggering due to through fault needs review.	
15	400KV/220KV JULURUPADU-ICT-2	As per the reports submitted, 400KV/220KV JULURUPADU ICT 2 got tripped on Buchholz relay operation for a through fault.	07-09-2026 06:55	**TGTRANSCO** : 1. Tripping of the ICT on Buchholz protection during through fault needs review	
16	400KV/11KV GREENKO_PSP-ST-1	As per communication with Greenko_PSP, the triggering incident was a phase-to-phase breaker flashover on the 11 kV incoming feeder. Since ST-1 was enabled with residual voltage protection, the flashover caused a voltage imbalance, OPEN DELTA RESIDUAL OVERVOLTAGE TRIP operated resulting in the tripping of ST-1 at both ends.	10-09-2026 13:19	**GREENKO** : 1. Tripping of the ST-1 on OPEN DELTA RESIDUAL OVERVOLTAGE TRIP needs review	
17	400KV/11KV GREENKO_PSP-ST-1	As per communication with Greenko_PSP, the triggering incident was a phase-to-phase breaker flashover on the 11 kV incoming feeder. Since ST-1 was enabled with residual voltage protection, the flashover caused a voltage imbalance, OPEN DELTA RESIDUAL OVERVOLTAGE TRIP operated resulting in the tripping of ST-1 at both ends.	10-09-2026 19:28	**GREENKO** : 1. Tripping of the ST-1 on OPEN DELTA RESIDUAL OVERVOLTAGE TRIP needs review	

18	Tripping of Gazuwaka Pole-1&2	As per the reports submitted, the triggering incident was an auxiliary supply failure in the poles of the 500 kV Gazuwaka. Following the auxiliary supply failure, Pole 2 tripped first, followed by Pole 1.	14-09-2026 12:47	**PGCIL SR-1** : 1. Tripping of the poles and Auxiliary supply failure needs review	
19	HVDC 800KV PUGALUR HVDC Pole 3	As per the reports submitted, the triggering incident was the VCU fault by Thyristor monitoring of U4. After the fault pole 3 of Pugalur HVDC tripped.	14-09-2026 18:15	**PGCIL SR-2** : 1. Tripping of the pole needs review	
20	400KV-KADANDALE-HEBBANAHALLI-1	As per the reports submitted, the triggering incident was B-G fault in the line. At Kadandale end, the fault was sensed in Z1, B pole got opened and A/R operated successfully but the line tripped on persistent fault. At Hebbanahalli end, the fault was sensed in Z1, B pole got opened and A/R operated successfully but the line tripped on persistent fault.	15-09-2026 22:53	**KPTCL** : 1. Non sensing of fault in KADANDALE Main-2 needs review 2. Variation in sensing of fault in Main-1 (in Z1) and Main-2 (in Z3) at HEBBANAHALLI needs review	**KPTCL** : The line was charged on 18.09.2026 at 00:29 Hrs after snapped conductor rectification work @ location number 261 & 262 and the line stood ok.
21	400KV/33KV GREENKO_PSS3-ICT-1	As per the reports submitted, the triggering incident was a B-G fault in the 33 kV side Bay. As the fault didn't clear at 33 kV side, earth fault protection of ICT got triggered and tripped the transformer.	16-09-2026 03:58	**GREENKO** : 1. Current coordination at 400KV/33KV GREENKO_PSS3 where in tripping of ICT for 33kV fault needs review	
22	400KV/220KV KADANDALE-ICT-2	As per the reports submitted, the 400 kV/220 kV Kadandale ICT-2 tripped due to REF protection operation during a through fault attributed to a CT polarity issue.	16-09-2026 14:36	**KPTCL** : 1. REF protection tripping during through fault needs review.	**KPTCL** : It was found that, there was change in polarity connection and as per the instruction of RT wing the same has been rectified.
23	Tripping of 400KV/220KV GAZUWAKA-ICT-3 during	As per the reports submitted, the triggering incident was the R-G fault in the 220 kV	17-09-2026 15:02		

	fault in 220KV-VIZAG_SWS-PARAVADA-2	Vizag_SWS-Paravada-2 line. At both end the fault was sensed in Zone1 and R pole got open; however, A/R successfully operated. During the fault, LBB initiated due to external LBB high from VSS end and further LBB protection operated and tripped the ICT-3.		**APTRANSCO** : 1. Sending of spurious signal for LBB initiation and subsequent tripping of ICT-3 due to LBB operation needs review.	
24	400KV/220KV NAGARJUNASAGAR_PG-ICT-3	As per the reports submitted, 400KV/220KV NAGARJUNASAGAR ICT 3 got tripped on 220kV side downstream fault due to Earth fault protection.	18-09-2026 21:54	**PGCIL SR-1** : 1. Tripping of the ICT-3 on EF high set during through fault needs review 2. Current in the ICT DR is observed to be zero and the yet EF St-2 operated and needs review	

IV. Non-operation of Auto recloses during transient fault

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	220KV-ASUPAKA-LOWER_SILERU-1	As per the reports submitted, the triggering incident was B-G fault in the line. At Asupaka end, the fault was sensed in Z1 and line tripped in all three phases without any A/R operation. At Lower Sileru end, the fault was sensed in carrier aided Z2, B pole got opened and A/R operated successfully and the line was holding.	02-09-2026 12:27	**TGTRANSCO** : 1. Non operation of AR at Asupaka needs review	**TGTRANSCO** : Replacement of main-I D60 relay with ABB make REL670 type relay will be done by availing LC.
2	400KV-KALPAKKA-ASUPAKA-1	As per the reports submitted, the triggering incident was R-G fault in the line. At Kalpakka end, the fault was sensed in Z1 and R pole got opened, at Asupaka end, the fault was sensed in Z1 and 3 phase tripping was observed. At	08-09-2026 10:25	**TGTRANSCO** : 1. Non operation of AR at Asupaka needs review	

		Kalpakka end, A/R successfully operated and the line was holding but at Asupaka end A/R didn't operate and 3 phase trip.			
3	400KV-GUDDIGUDEM-HINDUJA-1	As per the reports submitted, the triggering incident was Y-G fault in the line. At Guddigudem end, the fault was sensed in Z1 and R pole got opened. At Hinduja end the fault was sensed in Z1 and 3 phase tripped. At Guddigudem end A/R successfully operated and the line was holding but at Hinduja end A/R didn't operate and 3 phase tripped.	08-09-2026 13:25	**HINDUJA** : 1. Non operation of AR at Hinduja end needs review	**HINDUJA** : Investigation is in process
4	220KV-ASUPAKA-LOWER_SILERU-1	As per the reports submitted, the triggering incident was a Y-G fault in the line. At Asupaka end, the fault was sensed in Zone 1 and Y pole got opened and Lower Sileru end the fault was sensed in Zone 1 and 3 phase tripping was observed. At Asupaka end A/R successfully operated and the line was holding but at Lower Sileru end A/R didn't operate and 3 phase tripped.	09-09-2026 10:11	**APGENCO** : 1. Non operation of AR at LOWER_SILERU end needs review	
5	400KV-MARADAM-KALPAKKA-2	As per the reports submitted, the triggering incident was Y-G fault in the line. At Maradam end, the fault was sensed in Z1 and A/R operated successfully. At Kalpakka end, the fault was sensed in Z1 and A/R did not operate and line tripped in all three phases after 400 ms of Y pole opening.	10-09-2026 15:19	**APTRANSCO** : 1. Non operation of AR at KALPAKKA needs review	
6	400KV-RAMADUGU-SINGARENI-2	As per the reports submitted the triggering incident was a R-G fault in the line. At Ramadugu end the fault was sensed in Zone 2	10-09-2026 15:19	**TGTRANSCO** : 1. Tripping of main breaker for 400KV-	

		and R pole got opened, at Singareni end fault was sensed Z1 and R pole got opened and AR operated and the line was holding. At Ramadugu end A/R operated and Main breaker tripped without during AR close without any fault and tie breaker tripped at 2.8 sec from first fault pole discrepancy operated and tripped all three phases of tie breaker at Ramadugu end.		RAMADUGU-SINGARENI-2 at RAMADUGU after AR operation without any fault needs review 2. Tripping of tie breaker for 400KV-RAMADUGU-SINGARENI-2 at RAMADUGU on PD needs review	
7	400KV-KAIGA-GUTTUR-1	As per the reports submitted, the triggering incident was a Y-G fault on the line. At Guttur end, the fault was sensed in Zone 1, and the Y-pole opened. However, after 650 ms, the other two poles also opened due to A/R lockout. At Kaiga end, the fault was sensed in Zone 1, and the Y-pole opened. A/R operated successfully; however, the line subsequently tripped in all three phases due to a persistent fault.	10-09-2026 21:17	**KPTCL** : 1. Non operation of AR at Guttur end needs review	**KPTCL** : The relay has been tested for single ph faults and AR operation. 3 Ph trip initiation in this case is under investigation
8	400KV-NTPL-TUTICORIN_PS-2	As per the reports submitted, the triggering incident was an R-G fault on the line. At NTPL end, the fault was sensed in Zone 1; however, A/R did not operate, and the line tripped due to pole discrepancy before the AR close command. At Tuticorin end, the fault was sensed in Zone 1, and the R-pole opened. A/R subsequently operated and was successful and the line was holding.	13-09-2026 21:48	**NTPL** : 1. Non operation of AR and tripping of the line on PD needs review. 2. PD operation before the AR close command needs review	**NTPL** : AR dead time being a generating station was kept at 1.25s as per protection audit . The PD settings rechecked dial is found at 1.5s. AR dead time will be reviewed.
9	400KV-NELLORE_AP-VTPS_IV-1	As per the reports submitted, the triggering incident was a Y-G fault in the line. At Nellore end, the fault was sensed in Z1 and Y pole got	14-09-2026 14:04	**APGENCO** : 1. Non operation of AR at VTPS_IV end needs review	

		open, at VTPS_IV end the fault was sensed in Z1 and 3 phase tripping was observed without any A/R operation; however, at Nellore end A/R successfully operated.			
10	400KV-NELLORE_AP-VTPS_IV-1	As per the reports submitted, the triggering incident was a B-G fault in the line. At Nellore end, the fault was sensed in Z1 and B pole got open, at VTPS_IV end the fault was sensed in Z1 and 3 phase tripping was observed without any A/R operation; however, at Nellore end A/R successfully operated.	14-09-2026 14:39	**APGENCO** : 1. Non operation of AR at VTPS_IV end needs review	**APGENCO** : Parameter setting of "AR- BlockByUnsucCl kept OFF " and found normal. Now AR ready for next trip.
11	220KV-NP_KUNTA-SBENERGY_NPK-1	As per the reports submitted, the triggering incident was B-G fault in the line. At SBENERGY_NPK-1 end, the fault was sensed in line differential protection and 3 phase tripping was observed. At NP_KUNTA end the fault was sensed in line differential protection, B pole got opened and after successful A/R operation three phase tripping also observed due to fault in reclaim time.	17-09-2026 13:12	**APSPCL** : 1. Non operation of AR at SBENERGY_NPK end during single phase fault needs review.	**PGCIL SR-1** : Line patrolling was conducted from Npkunta PSS-4 (SB Energy) to the 400kV PGCIL end, but no fault was found
12	400KV-KALPAKKA-ASUPAKA-1	As per the reports submitted, the triggering incident was R-G fault in the line. At Kalpakka end, the fault was sensed in Z1 and R pole got open; however, A/R also successfully operated. At Asupaka end, the fault was sensed in Z1 and the line 3 ph tripped without any A/R operation.	18-09-2026 11:41	**TGTRANSCO** : 1. Non operation of AR at ASUPAKA end needs review	
13	400KV-CHITTOOR-KALIKIRI-2	As per the reports submitted, the triggering incident was a B-G fault in the line. At Chittoor end, the B-G fault was sensed in carrier aided Z2 and B pole got open; however, after 480 ms	20-09-2026 00:58	**APTRANSCO** : 1. Non operation of AR at CHITTOOR end needs review	**APTRANSCO** : Proposed for carrying out Main-2 Relay testing for trouble-shooting within a week.

		other two poles also got open without any A/R operation. At Kalikiri end, the B-G fault was sensed in Z1 and B pole got open; however, A/R also successful at this end.			
14	400KV-KRISHNAPATNAM-RACHAGUNNERI-1	As per the reports submitted, the triggering incident was Y-G fault in the line. At Krishnapatnam end, the fault was sensed in Z1 and the line 3ph tripped without any A/R operation. At Rachagunneri end, the fault was sensed in Z1 and Y pole got open; however, A/R successfully operated.	20-09-2026 02:06	**APGENCO** : 1. Non operation of AR at KRISHNAPATNAM end needs review	**APGENCO** : The AR function testing proposed at SDSTPS end for all the lines through OEM HITACHI.PO placed ,which will completed during Nov and Dec months.

V. PLCC Maloperation-related Events

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	400KV-MEDARAM_GIS-RAMADUGU-1	As per the reports submitted, the triggering incident was the DT receipt due to PLCC maloperation at Medaram end and the line tripped only at Medaram end. Line was in service at Ramadugu end.	19-09-2026 00:26	**TGTRANSCO** : 1. PLCC maloperation at Medaram end needs review	

VI. DR Time Synchronization Issues Related Events

Sl. No	Element	Date & Time	Station at which DR time synchronisation was not observed

1	220KV-KUDGI_NTPC-BILAGI-1	24-08-2026 06:25	BILAGI - 220KV
2	220KV-THENI-SABARIGIRI-1	24-08-2026 15:37	SABARIGIRI - 220KV
3	400KV/220KV RAMAGUNDAM-ICT-5	29-08-2026 12:41	RAMAGUNDAM - 400KV
4	220KV-RAMAGUNDAM-MALYALAPALLI-4	29-08-2026 12:41	MALYALAPALLI - 220KV
5	400KV-KAIGA-GUTTUR-1	01-09-2026 11:29	GUTTUR - 400KV
6	400KV-ALAMATHY-SUNGAVARACHATRAM-2	01-09-2026 13:47	ALAMATHY - 400KV
7	400KV-ALAMATHY-SUNGAVARACHATRAM-2	01-09-2026 13:47	SUNGAVARACHATRAM - 400KV
8	400KV-ALAMATHY-SUNGAVARACHATRAM-2	02-09-2026 15:57	SUNGAVARACHATRAM - 400KV
9	400KV-ALAMATHY-TIRUVALAM_TN-2	03-09-2026 06:42	ALAMATHY - 400KV
10	220KV-AMBEWADI-XELDEM-1	04-09-2026 13:03	AMBEWADI - 220KV
11	400KV-NEYVELI_TS_II-PUGALUR-1	05-09-2026 12:11	NEYVELI_TS_II - 400KV
12	230KV-NCTPS-SRIPERUMBADUR_TN-1	07-09-2026 23:32	SRIPERUMBADUR_TN - 230KV
13	230KV-NCTPS-KILPAUK-1	07-09-2026 23:21	NCTPS - 230KV
14	230KV-NCTPS-KILPAUK-1	07-09-2026 23:21	KILPAUK - 230KV
15	230KV-NCTPS-SRIPERUMBADUR_TN-1	07-09-2026 23:32	NCTPS - 230KV
16	NCTPS - 230KV	07-09-2026 23:32	NCTPS - 230KV
17	400KV-KAIGA-GUTTUR-1	08-09-2026 13:38	GUTTUR - 400KV
18	220KV-AMBEWADI-PONDA-2	10-09-2026 10:48	AMBEWADI - 220KV
19	400KV-PALAVADI-MTPS_ST_III-1	11-09-2026 13:06	MTPS_ST_III - 400KV
20	SHARAVATHY - 220KV	12-09-2026 01:59	SHARAVATHY - 220KV
21	220KV-AMBEWADI-PONDA-2	12-09-2026 13:01	AMBEWADI - 220KV
22	400KV-MANALI-PULIYANTHOPE-2	14-09-2026 00:47	MANALI - 400KV
23	HVDC 500KV GAZUWAKA Pole 1	14-09-2026 12:47	GAZUWAKA

24	HVDC 500KV GAZUWAKA Pole 2	14-09-2026 12:47	GAZUWAKA
25	400KV/33KV GREENKO_PSS3-ICT-1	16-09-2026 03:58	GREENKO_PSS3 - 400KV
26	HVDC500KV-TALCHER-KOLAR_DC-1	17-09-2026 11:28	KOLAR HVDC - 500KV
27	220KV-NP_KUNTA-SBENERGY_NPK-1	17-09-2026 13:12	NP_KUNTA - 220KV
28	220KV-NP_KUNTA-SBENERGY_NPK-1	17-09-2026 13:12	SBENERGY_NPK - 220KV
29	400KV-THENNAMPATTY-VIRUDHUNAGAR-1	20-09-2026 16:17	VIRUDHUNAGAR - 400KV

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