

Grid Occurrences – 144

*For all tripping events, concerned Constituents are requested to furnish to SRPC Secretariat, by **01.07.2026** 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 **01.07.2026** and present the same in the meeting.*

I. Details of Grid Disturbances

S. No.	Event	Event Analysis	Outage Date & time	Genera- tion 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 Renigunta SS of APTRANSCO	As per the reports submitted, the triggering incident was R-Phase CT failure in 220kV Nagari Renigunta line at Renigunta SS which eventually became a 220kV Bus fault. 220kV BBP did not operate and all lines connected to 220kV Renigunta SS tripped from remote ends. This led to complete outage of 220kV Renigunta SS.	21-05-2026 22:49	0	250	GD - 1	13-06-2026	07-06-2026	Considered

*Grid Occurrences to be discussed during 144th PCSC meeting to be held on **08.07.2026***

2	Complete Outage of 400kV ILFS of ITPCL	400kV ILFS is only connected to NAGAPATTNAM_PS through 400KV-ILFS-NAGAPATTNAM_PS-1&2 lines. In the antecedent conditions, 400KV-ILFS-NAGAPATTNAM_PS-2 was under outage due to planned shutdown and hence 400kV ILFS was radially connected to NAGAPATTNAM_PS prior to the event through 400KV-ILFS-NAGAPATTNAM_PS-1. The triggering incident was R-G fault in 400KV-ILFS-NAGAPATTNAM_PS-1. Tripping of the only connected line led to complete outage of 400KV-ILFS and a generation loss of around 557MW.	22-05-2026 12:45	557	0	GD - 1	04-06-2026	-	Not Considered
3	Complete Outage of 220kV Garividi SS, 220kV Bobbili SS, 220kV Tekkali SS of APTRANSCO	During antecedent conditions, 220kV Maradam Bobbili line-2 was under shutdown and 220kV Garividi Bobbili Line-1 was in hand tripped condition at Garividi end. 220kV Bobbili SS, 220kV Garividi SS and 220kV Tekkali SS are being radially fed from 220kV Maradam Bibbili Line-1 and 220kV Maradam Garividi Line-1&2. As per the reports submitted, 220kV Maradam Bobbili Line-1 tripped on B-G fault at 11:48hrs, 220kV Maradam Garividi Line-2 tripped on B-G fault at 11:56hrs and 220kV Maradam Garividi Line-1 tripped at 11:57hrs on B-G fault. Tripping of all these lines led to complete outage of 220kV Garividi SS, 220kV Bobbili SS, 220kV Tekkali SS	23-05-2026 11:57	0	615	GD - 1	05-06-2026	29-05-2026	Considered

4	Complete Outage of 400kV Vatter SS of TGTRANSCO	During the antecedent conditions, 400 kV Yedula-Vatter Line-2 was under outage and 400 kV Vatter SS was being radially fed through 400 kV Yedula-Vatter Line-1. The triggering incident is the R-G fault in the line, during which OV St-2 was sensed at Vatter end and 3ph tripped and DT sent to remote end leading to 3ph tripped at Yedula end. Tripping of the only line connected to 400 kV Vatter SS, led to the complete outage of 400 kV Vatter SS of TGTRANSCO.	24-05-2026 03:19	0	0	GD - 1	11-06-2026	17-06-2026	Not Considered
5	Complete Outage of 230kV NTPC Ettayapuram of NTPC	230kV NTPC_Ettayapuram is radially connected to TTGS through 230KV-TTGS-Ettayapuram-1 line. As per the reports submitted, the triggering incident was B-G fault in 230KV-TTGS-Ettayapuram-1 line and the line tripped. Tripping of the only connected line led to complete outage of 230kV NTPC Ettayapuram of NTPC.	24-05-2026 13:21	144	0	GD - 1	01-06-2026	25-05-2026	Considered
6	Complete Outage of 220kV Exora SS, 220kV Vikas Tech and 220kV Bus-1 Outage at 220kV Malur SS of KPTCL	220kV Malur SS was operating with split bus condition with 220kV Hoody Malur line feeding 220kV Malur Bus-1. 220kV/66kV Exora and 220kV/66kV Vikas Tech Park were being radially fed from 220kV Malur Bus-1. As per the reports submitted, the triggering incident was Y-G fault in 220kV Hoody Malur line and the line tripped. Tripping of this line led to loss of power supply to 220kV Malur Bus-1 which	29-05-2026 17:35	0	143	GD - 1	10-06-2026	02-06-2026 & 03-06-2026	Considered

		in turn led to complete outage of 220kV Exora SS and 220kV Vikas Tech Park.							
7	Complete Outage of 220kV Rychalu SS of KSPDCL	As per the reports submitted, the triggering incident was B-G fault in 220kV Pavagada Rychalu Line-1 and the line tripped. Tripping of the only connected line led to complete outage of 220kV Rychalu SS of KSPDCL	29-05-2026 23:59	0	0	GD - 1	-	-	-
8	Complete Outage of 220kV KANKAPURA, HAROHALLI, KIADB-HAROHALLI of KPTCL	In the antecedent conditions, 220kV KANKAPURA-TK HALLI was under idle charged condition and hence 220kV KANKAPURA, HAROHALLI, KIADB-HAROHALLI were radially connected through 220KV-HAROHALLI-SOMANAHALLI-1. The triggering incident is the R-G fault in 220KV-HAROHALLI-SOMANAHALLI-1 line and the line tripped. Tripping of the only line connected led to the Complete Outage of 220kV KANKAPURA, HAROHALLI, KIADB-HAROHALLI of KPTCL	31-05-2026 19:47	0	92	GD - 1	15-06-2026	04-06-2026 08-06-2026	Considered
9	Complete outage of 220kV Sabarigiri PH of KSEB	As per the reports submitted, the triggering incident was failure of the R-phase pole of the Generator Main Circuit Breaker of Unit-5 to open during a normal shutdown of the generating unit leading to operation of the Local Breaker Backup (LBB) protection and further due to an isolator discrepancy associated with	02-06-2026 06:37	168	0	GD - 1	15-06-2026	08-06-2026	Considered

		Unit-5, both the 220 kV Main Bus and 220 kV Transfer Bus were tripped leading to the Complete outage of 220kV Sabarigiri PH of KSEB.							
10	Complete Outage of 765kV NCPS Pooling station of TANTRANSCO and 765kV NCTPS Generating station of TNPGL	765kV NCPS Pooling station and 765kV NCTPS Generating station are radially connected through 765kV Ariyalur NCPS Line-1&2. During antecedent conditions, 765kV Ariyalur NCPS Line-1 was under outage from 18-05-2026 23:30 Hrs due to Y-G fault and hence 765kV NCPS Pooling station and 765kV NCTPS Generating station were radially connected to 765kV Ariyalur NCPS Line-2. The triggering incident is the Y-G fault in the 765kV Ariyalur NCPS Line-2 and the line tripped. Tripping of the only source led to complete outage of 765kV NCPS Pooling station and 765kV NCTPS Generating station	03-06-2026 18:34	483	0	GD - 1	11-06-2026	05-06-2026 10-06-2026	Considered
11	Complete Outage of 220kV Renew_Surya_Koppal of Renew	As per the report submitted, while charging 220KV/33KV Renew_Surya_Koppal-ICT-1, 220kV KOPPAL-Renew_Surya_Koppal-1 tripped at Renew_Surya_Koppal end and DT was sent to Koppal end. The line tripped at Koppal end upon receiving DT. Tripping of the only connected line led to complete outage of Renew_Surya_Koppal.	06-06-2026 13:42	18	0	GD - 1	13-06-2026	07-06-2026	Considered

12	Tripping of 220kV Bus-1 & Bus-2 of 400kV Kalaburagi SS of KPTCL and Complete Outage of 220kV Avada Solar plant	220kV Avada Solar is being radially fed from 220kV Kalaburagi Bus-1. As per the reports submitted, the triggering incident was B-G fault in 220kV Kalaburagi Shahpur line. At the same time, B-pole LBB of 220kV Kalaburagi Shahpur line operated at Kalaburagi end tripping all elements connected to 220kV Bus-1 and Bus-2 at 400kV Kalaburagi SS and complete outage of 220kV Avada Solar plant	06-06-2026 15:07	7	0	GD-1	-	-	-
13	Complete Outage of 220kV Hiriyur_Ostro of RENEW	220kV Hiriyur_Ostro is connected radially to Hiriyur through 220KV-HIRIYUR_OSTRO-HIRIYUR-1. The triggering incident is the R-G fault in the line and the line tripped. Tripping of the only line connected to Hiriyur_Ostro led to the complete outage of Hiriyur_Ostro of RENEW	08-06-2026 07:49	85	0	GD - 1	11-06-2026	09-06-2026	Considered
14	Complete Outage of 765kV NCPS Pooling station of TANTRANSCO and 765kV NCTPS Generating station of TNPGL	765kV NCPS Pooling station and 765kV NCTPS Generating station are radially connected through 765kV Ariyalur NCPS Line-1&2. During antecedent conditions, 765kV Ariyalur NCPS Line-1 was under outage and hence 765kV NCPS Pooling station and 765kV NCTPS Generating station were radially connected to 765kV Ariyalur NCPS Line-2. As per the reports submitted, the triggering incident was persistent Y-G fault in 765kV Ariyalur NCPS Line-2 and the 3-ph tripped. Tripping of the only source led to complete outage of	09-06-2026 20:10	514	0	GD - 1	11-06-2026	10-06-2026	Considered

		765kV NCPS Pooling station and 765kV NCTPS Generating station.							
15	Complete Outage of 220kV HSR SS, 220kV Nimhans SS, 220kV Koramangala SS, 220kV Nagnathpura SS of KPTCL	As per the reports submitted, the triggering incident was Y-G fault in 220kV Mylasandra HSR Line-2 and the line tripped. At the same time, 220kV Mylasandra HSR Line-1 and 220kV Mylasandra Nagnathpura lines tripped at HSR end and Nagnathpura end on Zone-1 over reach and SOTF maloperation. This led to over loading of 220kV HSR EPIP line and the line was eventually hand tripped due to arcig. Tripping of all these lines led to complete outage of all radial stations namely 220kV HSR SS, 220kV Nimhans SS, 220kV Koramangala SS, 220kV Nagnathpura SS.	10-06-2026 10:53	0	501	GD - 1	26-06-2026	11-06-2026 19-06-2026	Considered
16	Complete outage of 220kV Zenataris_PSS	As per the reports submitted, the triggering incident was B-G fault in 220KV-HIRIYUR-ZENATARIS_PSS-1 and the line tripped. Tripping of the only connected line led to complete outage of 220kV Zenataris_PSS.	12-06-2026 12:25	60	0	GD - 1	-	-	-
17	Complete outage of 220kV Zenataris_PSS	As per the reports submitted, the triggering incident was B-G fault in 220KV-HIRIYUR-ZENATARIS_PSS-1 and the line tripped. Tripping of the only connected line led to complete outage of 220kV Zenataris_PSS.	13-06-2026 10:52	50	0	GD - 1	18-06-2026	-	Not Considered

18	Complete Outage of 220kV Pothencode SS of KSEB	As per the reports submitted, the triggering incident is the B-G fault near 220kV Pothencode Bus-2. Immediately, 220kV Bus-1 & Bus-2 BBP operated and all elements connected to 220kV Pothencode Bus-1 & Bus-2 tripped leading to complete outage of 220kV Pothencode SS	18-06-2026 08:50	0	300	GD - 1	-	-	-
19	Complete Outage of 400kV Udangudi SS of TNPGL	400 kV UDANGUDI Generating Station is radially connected to 400 kV OTTAPIDARAM Substation through 400KV-OTTAPIDARAM-UDANGUDI-1 and 400KV-OTTAPIDARAM-UDANGUDI-2 lines. As per the reports submitted, while hand tripping of 400KV-OTTAPIDARAM-UDANGUDI-2 line (Bay-414) , DT was send to 400KV-OTTAPIDARAM-UDANGUDI-1 line bay at OTTAPIDARAM 400kV Sub station. Simultaneous tripping of both outgoing 400 kV transmission lines resulted in loss of the power evacuation path from the generating station and subsequent de-energization of the 400 kV bus. This in turn led to the tripping of 400KV/11KV UDANGUDI-ST-1 and 400KV/21KV UDANGUDI-GT-1 due to bus de-energization. This led to the complete outage of 400 kV UDANGUDI Generating station.	18-06-2026 11:56	378	0	GD - 1	-	-	-

20	Complete outage of 765kV NCPS of TANTRANSCO and 765kV NCTPS Generating station of TNPGL	765kV NCTPS Stage-II generating station is evacuating power through 765 kV NCPS–NCTPS STG3-1 and 765 kV NCPS–NCTPS STG3-2, while 765 kV Ariyalur–NCPS-1 and 765 kV Ariyalur–NCPS-2 were also in service. The triggering incident is a issuance of a spurious Direct Trip (DT) signal from the Main-2 at NCPS to the remote ends, resulting in the tripping of 765 kV NCPS–NCTPS STG3-1 and STG3-2 at the NCTPS end and 765 kV Ariyalur–NCPS-1 and 2 at the Ariyalur end. This led to complete outage of 765kV NCPS of TANTRANSCO and 765kV NCTPS Generating station of TNPGL	20-06-2026 16:07	522	0	GD - 1	29-06-2026	21-06-2026 22-06-2026	Considered
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II. Details of Grid Incidents

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
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Grid Occurrences to be discussed during 144th PCSC meeting to be held on 08.07.2026

1	Tripping of 220kV Bus-1 of 220kV VTPS Generating Station of APGENCO	As per the reports submitted, the triggering incident was Y-B fault in 220kV VTPS Rentachinthala Line-1. At VTPS end, B-pole did not open causing 220kV Bus-1 LBB to operate. Immediately, 220kV VTPS Bus-1 LBB operated and all elements connected to the Bus-1 tripped. This led to the Tripping of 220kV Bus-1 at 220kV VTPS Generating Station of APGENCO	25-05-2026 17:08	457	0	GI-1	11-06-2026	09-06-2026	Considered
2	Tripping of 220kV Bus-2 of 220kV Lower Sileru PH of APGENCO	As per the reports submitted, while hand tripping the bus coupler at 220kV Lower Sileru PH, 220kV Lower Sileru chintur Line-1, 220kV Asupaka Lower Sileru Line-1 and Lower Sileru Unit-1 which are connected to 220kV Bus-2 of Lower Sileru PH tripped on Directional earth fault protection. Tripping of all these elements led to loss of power supply to 220kV Bus-2 of 20kV Lower Sileru PH	26-05-2026 00:12	100	0	GI-1	08-06-2026	01-06-2026	Considered
3	Tripping of 400kV and 220kV Bus-1 at Gajwel of TGTRANSCO	During the antecedent condition, 400KV-GAJWEL-NARSAPUR-2, 400KV-RAMADUGU-GAJWEL-1 and 400KV-RAMADUGU-GAJWEL-2 was under outage. As per the reports submitted, the triggering incident is 220kV Bus-1 B-ph Bus PT failure leading to the operation of 220kV BBP and tripping of all elements connected to 220kV Bus-1 at Gajwel. During the same time, 400kV Bus-1 also tripped due to LBB maloperation.	27-05-2026 06:02	0	0	GI-2	15-06-2026	10-06-2026	Considered

		This led to the Tripping of 400kV and 220kV Bus-1 at Gajwel of TGTRANSCO.							
4	Tripping of 400kV Bus-2 of 400kV Alamathy SS of TANTRANSCO	As per the reports submitted, the triggering incident was R-G fault in 400kV Alamathy-Manali line due to failure of R phase supporting insulator which eventually caused R-G fault in 400kV Bus-2. Immediately, 400kV Bus-2 BBP operated and all main breakers connected to 400kV Bus-2 tripped. This led to loss of power supply to 400kV Alamathy Bus-2.	03-06-2026 18:00	0	0	GI-2	19-06-2026	12-06-2026	Considered
5	Tripping of 400kV Bus-1 of 400kV SEPC Generating station.	As per the reports submitted, the triggering incident was B-G fault in 400kV SEPC Bus-1. Immediately, 400kV Bus-1 BBP operated and all elements connected to the bus tripped.	06-06-2026 18:58	0	0	GI-2	-	-	-
6	Tripping of 400kV Kalpakka Bus-3 of APTRANSCO	The triggering incident is the 4" IPS pipe connector failure in 400 kV Bay-424 (PGCIL-2 Bay) and came into contact with R-phase, resulting in R-G Bus fault in Bus-3. Subsequently, Bus-3 Busbar Protection operated and tripped all Bus-3 connected elements, namely 400kV Simhadri-Kalpakka-2, 400kV Kalpakka-Vemagiri AP-1, 400kV Gazuwaka-Kalpakka-2 and 400/220kV ICT-3 and Direct Transfer Trip signals were also transmitted to the corresponding remote substations. This led to	09-06-2026 19:26	0	0	GI-2	15-06-2026	11-06-2026	Considered

		the Tripping of 400kV Kalpakka Bus-3 of APTRANSCO							
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III. Single/Multiple Element Tripping with Protection Violation

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	400KV-GUDDIGUEDEM-HINDUJA-1	As per the reports submitted, the triggering incident was B-G fault in the line. At GUDDIGUEDEM end, the fault was sensed in carrier aided Z2 and B pole opened AR operated and was successful but due to the fault after around 300ms from AR operation led to tripping of the line with a delay of around 250ms only upon receiving carrier signal . At HINDUJA end, the fault was sensed in Z1 and B pole opened. At both ends, A/R operated the line tripped on persistent fault.	21-05-2026 10:50	<u>APTRANSCO</u> : 1. Non operation of SOTF/ToR where in the subsequent fault is within 300ms of AR operation but delayed fault clearance on Z2 needs review	
2	Multiple trippings at Jindal TPS	As per the reports submitted, the triggering incident is the Zone-1 R-G fault on the 400 kV BPS–Pavagada line. The fault was successfully cleared through auto-reclosure (AR). Simultaneously, the 400 kV Jindal–BPS-3 and 400 kV Jindal–BPS-4 lines tripped at the Jindal (JSW) end, while the corresponding breakers at the BPS end remained closed. During the disturbance, a Zone-3 start was detected in the Main-1 and Main-2 relays however,	23-05-2026 22:38	<u>JSW THERMAL</u> : Tripping of 400KV-JINDAL-BPS-3 & 4 on GPR issue	<u>JSW THERMAL</u> : Remote end breaker is in close condition, BPS L3 CB closed after checking at JSW end at 23.18

		no master trip was initiated. The tripping of the 400 kV Jindal–BPS-3 and 400 kV Jindal–BPS-4 lines at the Jindal end is suspected to have occurred due to Ground Potential Rise (GPR) associated with the fault on the 400 kV BPS–Pavagada line.			
3	Multiple Trippings at 400kV Gajwel SS	As per reports submitted, the triggering incident is the R-G fault on the 400 kV Gajwel–Narsapur-2 line, which resulted in Zone-1 protection operation and tripping of the line from both ends. Auto Reclosure (AR) was initiated at the Gajwel end, however, a Y-G fault occurred during the AR dead time, causing the line to trip again and remain out of service. Due to the common DIA configuration of the 400 kV Narsapur-2 and Chandulapur-1 feeders at Gajwel Substation, the 400 kV Gajwel–Chandulapur-1 line also operated on SOTF indication and tripped at the Gajwel end, while remaining in service at the Chandulapur end.	26-05-2026 21:40	<u>TGTRANSCO</u> : 400 kV Gajwel–Chandulapur-1 tripped at the Gajwel end on SOTF indication needs review for fault in 400KV-GAJWEL-NARSAPUR-2	<u>TGTRANSCO</u> : 1. Tie breaker SOTF logic will be checked while availing LC.
4	Multiple trippings at 400kV Thennampatty SS of TANTRANSCO	As per the reports submitted, the triggering incident is a Y-G fault in the 400 kV Ottapidaram – Thennampatti-2 line. At thennampatty end, the fault did not clear immediately and the fault was being fed though remote lines where 400 kV Kayathar – Thennampatti-1 tripped at Kayathar end and 400 kV Kayathar – Kanarpatti-1, and 400 kV Kayathar – Kanarpatti-2 lines tripped at Kanarpatti end on zone-	28-05-2026 15:40	<u>TANTRANSCO</u> : Distance protection co-ordination to be checked at Thennampatty SS and in connected lines.	<u>TANTRANSCO</u> : 1. The reason for conversion of 1 Pole Trip to 3 Pole Trip by Main-2 Relay (MICOM P446) will be analyzed in the next Shutdown.

		3 protection. At the same time, SEPC GT-1 tripped on Earth Fault Protection at SEPC generating station.			
5	400KV-GAJWEL-CHANDALAPUR-2	As per the reports submitted, the triggering incident was a relay maloperation at the Chandulapur end without any indications. The relay operated spuriously only during loading on DC Battery Source-1. Upon inspection, it was observed that 47 cells in Battery Set-1 had become open-circuited. The issue was subsequently rectified, and the battery feeder was charged and restored to service. At GAJWEL end, Line is in service	29-05-2026 11:26	<u>TGTRANSCO</u> : Spurious tripping of the line due to issue in DC supply.	
6	400KV-KOPPAL-KUDGI_PG-2	As per reports submitted, Line got tripped due to human error at Kudgi end and 3ph tripping was observed during Bus-II SD Work by M/s WRSR (ADANI). At Koppal end, DT was received which was sent by Kudgi end and 3ph tripped	29-05-2026 14:25	<u>PGCIL SR-2</u> : Sending DT to Koppal end needs review.	
7	Multiple trippings at Nagarjunasagar	As per reports submitted, the triggering incident is the maloperation of the 400 kV Busbar Protection Relay at Nagarjunasagar (PG) Substation during relay testing on 400 kV Bus-1, which was under shutdown for AMP works. Due to the relay maloperation, Direct Trip DT signals were issued, resulting in the tripping of the 400 kV Nagarjunasagar (PG)–Khammam (PG)-1, Nagarjunasagar (PG)–Mehboobnagar-1, and Nagarjunasagar (PG)–Ramagundam-2 transmission lines.	29-05-2026 17:14	<u>PGCIL SR-1</u> : 1. BBP maloperated under shutdown for AMP work needs check.	

8	765KV-WARANGAL(NEW)-WARORA-2	As per the reports submitted, the triggering incident was B-G fault in the line. At Warangal end, the fault was sensed in zone-2 and the line tripped with a delay of around 440ms.	31-05-2026 15:55	<u>ADANI ATL</u> : Non operation of carrier aided zone-2 protection at Warangal end.	
9	765KV-WARANGAL(NEW)-WARORA-1	As per the reports submitted, the triggering incident was RY fault on the 765KV-WARANGAL(NEW)-WARORA-1 line. At WARANGAL(NEW) end, the fault was detected in Z2 and 3-phase tripped after 450 ms without receiving any carrier trip signal.	31-05-2026 15:55	<u>ADANI ATL</u> : Non operation of carrier aided zone-2 protection at Warangal end.	
10	400KV-OTTAPIDARAM-SEPC-2	As per the reports submitted, line got tripped on Bus-2 G2 compartment SF6 gas pressure low detected due to cable fault at SEPC end. DT was received from remote end and 3ph tripped at Ottapidaram end.	08-06-2026 11:42	<u>SEPC</u> : Line-2 tripped following the detection of low SF6 gas pressure in the Bus-2 G2 compartment needs review.	<u>SEPC</u> : Cable changed and fault rectified
11	400KV-DONI-GUTTUR-1	As per the reports submitted, the circuit breaker (CB) tripped only at the Guttur end, suspected to have been caused by a malfunction of the SF6 safe trip contactor due to a loose contact.	08-06-2026 13:32	<u>KPTCL</u> : Tripping of the line due to SF6 safe trip contactor mal function	<u>KPTCL</u> : same day LC availed & checked no abnormalities found hence test charged stood ok

12	400KV/220KV SUNDILA-ICT-3	As per the reports submitted, the triggering incident was R-G fault in 400kV Singareni Ramadugu Line-1. A/R operated and the line was holding. At the same time, 400KV/220KV SUNDILA-ICT-3 tripped on Relay Maloperation at Sundila. The Relay testings and all Transformers testings were done but no fault found and charged the ICT. 315MVA ICT-3 tripped on operation of differential protection.	08-06-2026 18:33	<u>TGTRANSCO</u> : Tripping of 400KV/220KV SUNDILA-ICT-3 on differential protection maloperation for external fault.	<u>TGTRANSCO</u> : The relay testing and all transformer testing were done but no fault found and charged the ICT.
13	Tripping of 400KV/220KV JULURUPADU-ICT-1 &2	As per the reports submitted, 400KV/220KV Julurpadu ICT-1&2 tripped without any protection relay indications.	10-06-2026 09:56	<u>TGTRANSCO</u> : ICTs tripped without any protection relay indications	
14	400KV/220KV BHOOPALAPALLY- ICT-2	As per the reports submitted, 500 MVA ICT 2 LV breaker tripped without indications at 400KV/220KV BHOOPALAPALLY due to DC earth leakage. It is reported that TGTRANSCO Rectified DC earth leakage found in 204 bay (100 MVA PTR-2) and charged the ICT	11-06-2026 13:33	<u>TGTRANSCO</u> : Tripping of ICT on DC Earth fault	<u>TGTRANSCO</u> : Rectified DC earth leakage found in 204 bay (100MVA PTR-2) and charged the ICT.
15	400KV/220KV SATTENPALLY-ICT-3	As per the reports submitted, ICT tripped on PRV maloperation.	13-06-2026 09:20	<u>APTRANSCO</u> : Tripping of ICT on PRV maloperation	<u>APTRANSCO</u> : DGA Conducted result found satisfactory
16	400KV-SIMHADRI- GAZUWAKA-1	As per the reports submitted, Line was not tripped at Simhadri end, both main and tie breaker was in	17-06-2026 17:56		

		closed condition. During the tripping of 400kV Gajuwaka-Kalpaka 1&2 feeders, DC/AC mixing issue was suspected to be occurred in 412 bay. Subsequently, (41252) Y-pole of Main CB of 400kV Gajuwaka Simhadri-1 got opened inadvertently and other two poles tripped on PD relay. As the Tie CB is already tripped due to tripping of Kalpaka-2 feeder, the feeder got isolated at Gajuwaka end.		PGCIL SR-1 : 1. Reason for mixing of AC and DC signals sources during the event. 2. Inadvertent opening of Main CB Main CB of 400kV Gajuwaka Simhadri-1	
17	400KV/220KV GAZUWAKA-ICT-3	As per the reports submitted, during antecedent conditions, 400kV Kalpaka-Gajuwaka 1&2 feeders tripped at 17:11 Hrs 17.06.2026 due to R-G fault in 400kV Kalpaka-Gajuwaka 1 & B-G fault in 400kV Kalpaka-Gajuwaka 2. During the instant of tripping, it is reported that mixing of DC/AC sources were observed. Subsequently at 19:14 hrs, R-Pole of 40252 (Tie CB of 400kV Gajuwaka-Kalpaka Line-1 and 400kV ICT-3) got closed inadvertently. The closing of R-Pole resulted in feeding of fault through ICT-3 and which in-turn caused the operation IV Back-up over current protection in 400KV/220KV GAZUWAKA-ICT-3 and the ICT got tripped.	17-06-2026 19:15	PGCIL SR-1 : 1. Reason for mixing of AC and DC signals sources during the event. 2. Inadvertent closing of Tie CB R-pole of 400kV Gajuwaka-Kalpaka Line-1 and 400kV ICT-3	
18	400KV/230KV VELLALAVIDUTHI-ICT-3	As per the reports submitted, 400KV/230KV VELLALAVIDUTHI-ICT-3 tripped on 86 master relay without any indication. It is reported that on inspection, DC leakage in Breaker control cable is observed and damaged wires were replaced with spare ones. However, the same could not be verified	19-06-2026 19:27	TANTRANSCO : Tripping of 400KV/230KV VELLALAVIDUTHI-ICT-3 without any indications due to DC leakage in CB cable.	TANTRANSCO : Damaged wires were replaced with spare one

		due to non-submission of DR and EL and from PMU R-G fault is observed during the event.			
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IV. Non-operation of Auto recloses during transient fault

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	400KV-GAJWEL-RAMAGUNDAM-1	As per the reports submitted, the triggering incident was Y-G fault in the line. At GAJWEL end, the fault was sensed in Z1, line tripped, A/R did not operate. At RAMAGUNDEM end, the fault was sensed in carrier aided Z2, Y pole opened, A/R operated and was successful but in 8 sec again fault sensed in Y phase and the line tripped on zone-2 protection.	24-05-2026 13:20	TGTRANSCO : Non operation of A/R at Gajwel end	TGTRANSCO : Non operation of A/R will be checked
2	220KV-KOTHAGUDEM_TPS-TIRUVURU-1	As per the reports submitted, the triggering incident was R-G fault in the line at a distance of 19km from Kothagudem end. At KOTHAGUDEM end, the fault was sensed in Z1, R-pole opened and the line tripped on suspected pole discrepancy after 1.5s. At TIRUVURU end, the fault was sensed in carrier aided Z2, R-pole opened, A/R operated and was successful.	24-05-2026 15:27	TGGENCO : Non operation of A/R at KTPS end needs review	
3	400KV-GAJWEL-RAMAGUNDAM-1	As per the reports submitted, the triggering incident was Y-G fault in the line. At GAJWEL end, the fault was sensed in Z1, and the line tripped with no A/R operation. At RAMAGUNDAM end, the fault was sensed in carrier aided Z2, Y pole opened, A/R operated and was successful and line was holding	24-05-2026 16:09	TGTRANSCO : Non operation of A/R at Gajwel end needs review	TGTRANSCO : Non operation of A/R will be checked

4	765KV-WARANGAL(NEW)-CHILAKALURIPETA-1	As per the reports submitted, the triggering incident was R-G fault in the line. At Warangal end, the fault was sensed in Z1, R pole opened, A/R did not operate and the other two poles tripped after around 1200ms. At Chilakaluripeta end, the fault was sensed in Z1, R pole opened, A/R did not operate and the line tripped in Main CB but after around 1s, the line tripped in Tie CB after around 3s.	26-05-2026 23:50	<u>ADANI ATL</u> : Non operation of A/R at warangal end <u>PGCIL SR-1</u> : Non operation of A/R at Chilakaluripeta end	
5	765KV-WARANGAL(NEW)-WARORA-1	As per the PMU, B-G fault is observed in 765KV-WARANGAL(NEW)-WARORA-1. At Warangal end, the fault was sensed in zone-1. A/R did not operate and the line tripped.	31-05-2026 16:14	<u>ADANI ATL</u> : Non operation of A/R at warangal end	
6	220KV-Chintur-BG Kothur-1	As per the reports submitted, the triggering incident was R-G fault in the line. At Chintur end, the fault was a slow developing fault and was sensed in Z2 after receiving carrier signal at a distance of 85km, and the line tripped with a delay of around 400ms. At BG Kothur end, the fault was sensed in Z1 at a distance of 1.5km, A/R did not operate and the line tripped.	31-05-2026 23:28	<u>TGTRANSCO</u> : Non operation of A/R at BG Kothur end	<u>TGTRANSCO</u> : Non operation of A/R will be checked
7	400KV-TIPPAPUR-JANAGAON-1	As per reports submitted, the triggering incident was R-G fault in the line. At both ends, the fault was sensed in Z1 at a distance of 52km from Tippapur end and at a distance of 22km from Janagon end, R pole opened, A/R operated and was successful. At	06-06-2026 02:24	<u>TGTRANSCO</u> : Non operation of A/R at Jangaon end.	<u>TGTRANSCO</u> : Non operation of Main breaker A/R at Jangoan end will be checked

		Jangaon end, A/R did not operate and the line tripped after 1s.			
8	220KV-KOTHAGUDEM_TPS-TIRUVURU-1	As per the reports submitted, the triggering incident was R-G fault in the line at a distance of 26km from Kothagudem end and 61km from Tiruvuru end. At KOTHAGUDEM end, the fault was sensed in Z1, R-pole opened and the line tripped on suspected pole discrepancy. At TIRUVURU end, the fault was sensed in Z1, R-pole opened, A/R operated and was successful.	06-06-2026 14:54	TGGENCO : Non operation of A/R KTPS end	
9	400KV-KTPS_VII-KHAMMAM_PG-1	As per the reports submitted, the triggering incident was R-G fault in the line. At KTPS end, the fault was sensed in Z1 at a distance of 18km, A/R did not operate and the line tripped. At Khammam end, the fault was sensed in Z1, Main A/R successful but Tie CB was in Non-auto mode (Khammam - Asupaka-Tie bay)	11-06-2026 01:24	TGGENCO : Non operation of A/R at KTPS end	
10	400KV-GAZUWAKA-KALPAKKA-2	As per the reports submitted, the triggering incident was B-G fault in the line. At Gazuwaka end, the fault was sensed in Z1 at a distance of 2km, B pole opened. A/R operated and the line tripped on persistent fault. At Kalpakka end, the fault was sensed in zone-1, A/R did not operate and the line tripped.	17-06-2026 17:10	APTRANSCO : Non operation of A/R at Kalpakka end	APTRANSCO : Jumper rectification carried out

11	400KV- NCTPS_STAGE_II- MANALI-1	As per the reports submitted, the triggering incident was Y-G fault in the line due to Y phase suspension insulator failure at location :58. At Manali end, the fault was sensed in Z1 at a distance of 67km, Y pole opened and A/R operated the line tripped due to persistent fault. At NCTPS end, the fault was sensed in Z1 at a distance of 12km, All 3 poles of Tie CB tripped pole opened in main CB and within dead time of MCB, DT received from remote end and the line tripped without A/R operation.	18-06-2026 15:23	<u>TNPGCL</u> : Non operation of Tie CB A/R at NCTPS_STAGE_II end	<u>TNPGCL</u> : Y phase suspension insulator at location :58 is to be replaced
12	400KV- NCTPS_STAGE_II- MANALI-1	As per the reports submitted, the triggering incident was Y-G fault in the line. At both ends, the fault was sensed in zone-1. At Manali end, Y-pole opened, A/R operated and the line was holding. At NCTPS end, All 3 poles in Tie CB have tripped and main CB Y-pole opened. However, Main CB A/R did not operate and the line tripped on PD relay after around 3s.	20-06-2026 19:24	<u>TNPGCL</u> : Non operation of A/R at NCTPS end.	<u>TNPGCL</u> : AR attempt was made by BCU (Alstom-C264), but Yph CMR input to BCU couldn't reset, hence AR close pulse wasn't issued by BCU. Pole discrepancy trip was observed on MCB. CMR- Yph relay is to be replace for successful AR function.

V. PLCC Maloperation-related Events

S. No.	Event	Event Analysis	Outage Date & time	Points for Review	Remedial Actions Furnished
1	400KV-MALKARAM-SURYAPET-1	As per the reports submitted, the triggering incident is the PLCC maloperation at Suryapet end and	06-06-2026 10:59		

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		Spurious DT signal sent from analog protection couplers while DCRM testing on 400KV Suryapet-Julurupadu feeder tie breaker. Line is in service at Suryapet end. DT was received and 3ph tripped at Malkaram end.		TGTRANSCO : PLCC maloperation at Suryapet end	
2	400KV-NCTPS_STAGE_II-VALLUR-1	As per the reports submitted, the triggering incident is the PLCC maloperation. At NCTPS end, Spurious Direct Trip command received from Vallur end which caused 3ph tripped. At Vallur end breaker did not trip.	07-06-2026 12:28	TNPGCL end: Receiving DT at NCTPS end.	
3	400KV-MALKARAM-SURYAPET-1	As per the reports submitted, the triggering incident is the PLCC maloperation at Suryapet end and Spurious DT signal sent from analog protection couplers while DCRM testing on 400KV Suryapet-Julurupadu feeder tie breaker. Line is in service at Suryapet end. DT was received and 3ph tripped at Malkaram end.	08-06-2026 11:59	TGTRANSCO : Sending DT from Suryapet end needs review.	TGTRANSCO : Replacement of analog protection coupler with digital protection coupler is under progress
4	400KV-GUDIWADA-VEMAGIRI_AP-2	As per the reports submitted, the triggering incident is the PLCC maloperation at Gudiwada end. The earth leakage found in outgoing cable connected to PLCC Protection coupler panel. On observation in PLCC Protection coupler unit, the control unit DTCP 02 failed and some cards are burnt and blackish formed. Hence, DT was received, the line tripped only at Gudiwada end	18-06-2026 12:36	APTRANSCO : Receiving DT at Gudivada end.	APTRANSCO : Normalcy restored after isolating the supply and cables connected to PLCC Protection coupler panel at 18:28 Hrs. on 18.06.2026. On 19.06.2026, the burnt PLCC cards replaced with spare ones. Thus, normalcy restored.

VI. DR Time Synchronization Issues Related Events

Sl. No	Element	Date & Time	Station at which DR time synchronisation was not observed
1	220KV-SRISAILAM_RIGHT_BANK-NAGARJUNASAGAR_TS-1	21-05-2026 09:01	SRISAILAM_RIGHT_BANK - 220KV
2	400KV-SRISAILAM_LEFT_BANK-DINDI-2	21-05-2026 19:27	SRISAILAM_LEFT_BANK - 400KV
3	400KV-YADADRI TPP-DINDI-2	21-05-2026 19:27	YADADRI TPP - 400KV
4	400KV-YADADRI TPP-DINDI-1	21-05-2026 19:27	YADADRI TPP - 400KV
5	220KV-RENIGUNTA-NAGIRI-1	21-05-2026 22:49	NAGIRI - 220KV
6	765KV-KURNOOL_PG-KURNOOL_PG_III-2	21-05-2026 23:40	KURNOOL_PG_III - 765KV
7	765KV-KURNOOL_PG-KURNOOL_PG_III-2	21-05-2026 23:40	KURNOOL_PG - 765KV
8	GOOTY-SWS - 220KV	22-05-2026 07:38	GOOTY-SWS - 220KV
9	220KV-SRISAILAM_RIGHT_BANK-DINDI-1	22-05-2026 11:02	SRISAILAM_RIGHT_BANK - 220KV
10	400KV-ILFS-NAGAPATTNAM_PS-1	22-05-2026 12:45	NAGAPATTNAM_PS - 400KV
11	220KV-SRISAILAM_RIGHT_BANK-DINDI-1	22-05-2026 12:46	SRISAILAM_RIGHT_BANK - 220KV
12	220KV-GARIVIDI-MARADAM-2	23-05-2026 11:57	GARIVIDI - 220KV
13	220KV-GARIVIDI-MARADAM-1	23-05-2026 11:57	MARADAM - 220KV
14	230KV-TTGS-Ettayapuram-1	24-05-2026 13:21	Ettayapuram - 230KV
15	Ettayapuram - 230KV	24-05-2026 13:21	Ettayapuram - 230KV
16	400KV-GAJWEL-CHANDALAPUR-1	26-05-2026 21:40	CHANDALAPUR - 400KV
17	400KV-RAMADUGU-GAJWEL-2	26-05-2026 21:54	RAMADUGU - 400KV
18	400KV-GHANAPUR-GAJWEL-1	27-05-2026 06:02	GAJWEL - 400KV
19	GAJWEL - 220KV	27-05-2026 06:02	GAJWEL - 220KV

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20	400KV-GAJWEL-RAMAGUNDAM-1	27-05-2026 06:02	GAJWEL - 400KV
21	GAJWEL - 400KV	27-05-2026 06:02	GAJWEL - 400KV
22	400KV/220KV GAJWEL-ICT-1	27-05-2026 06:02	GAJWEL - 400KV
23	400KV/220KV GAJWEL-ICT-2	27-05-2026 06:02	GAJWEL - 400KV
24	400KV-KALVENDAPATTU-VALLUR-1	28-05-2026 06:15	KALVENDAPATTU - 400KV
25	400KV-KAMUDHI-OTTAPIDARAM-1	28-05-2026 16:34	OTTAPIDARAM - 400KV
26	400KV-KAMUDHI-OTTAPIDARAM-1	28-05-2026 16:34	KAMUDHI - 400KV
27	220KV-HOODY-MALUR-1	29-05-2026 17:35	MALUR - 220KV
28	220KV-HOODY-MALUR-1	29-05-2026 17:35	HOODY - 220KV
29	400KV-HASSAN-HEBBANAHALLI-1	30-05-2026 21:39	HEBBANAHALLI - 400KV
30	400KV-MYSORE-KOZHICODE-1	31-05-2026 16:05	MYSORE - 400KV
31	220KV-HAROHALLI-SOMANAHALLI-1	31-05-2026 20:07	SOMANAHALLI - 220KV
32	SABARIGIRI - 220KV	02-06-2026 06:37	SABARIGIRI - 220KV
33	400KV-ALAMATHY-SUNGAVARACHATRAM-2	03-06-2026 20:43	SUNGAVARACHATRAM - 400KV
34	400KV-NELLORE_PG-VIJAYAWADA-1	09-06-2026 18:36	NELLORE_PG - 400KV
35	400KV-NELLORE_PG-VIJAYAWADA-1	09-06-2026 18:36	VIJAYAWADA - 400KV
36	400KV-KTPS_VII-KHAMMAM_PG-1	11-06-2026 01:24	KHAMMAM_PG - 400KV
37	400KV-LKPPL_STG2-VIJAYAWADA-2	11-06-2026 05:02	LKPPL_STG2 - 400KV
38	400KV-ALAMATHY-TIRUVALAM_TN-2	12-06-2026 11:49	ALAMATHY - 400KV
39	220KV-SRISAILAM_RIGHT_BANK-NAGARJUNASAGAR_TS-1	13-06-2026 11:29	SRISAILAM_RIGHT_BANK - 220KV
40	220KV-AMBEWADI-PONDA-2	13-06-2026 13:08	AMBEWADI - 220KV
41	400KV-ALAMATHY-SUNGAVARACHATRAM-1	16-06-2026 17:23	SUNGAVARACHATRAM - 400KV
42	400KV-GAZUWAKA-KALPAKKA-1	17-06-2026 17:10	KALPAKKA - 400KV

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43	400KV-SRISAILAM_LEFT_BANK-SATTENPALLY-1	17-06-2026 22:51	SRISAILAM_LEFT_BANK - 400KV
44	NCTPS STG3 - 765KV	20-06-2026 16:07	NCTPS STG3 - 765KV
45	765KV-ARIYALUR-NCPS-1	20-06-2026 16:07	ARIYALUR - 765KV
46	765KV-ARIYALUR-NCPS-2	20-06-2026 16:07	ARIYALUR - 765KV