Detailed Report

Date of Submission : 24-09-2026 17:24

AMGEPL_SOLAR - 400KV tripped at ***24-09-2026 10:49*** and restored at ***24-09-2026 13:00***

Summary of Event (घटना का सारांश)	:	400 kV line tripped on Over Voltage protection. Immediately after the tripping, line patrolling was carried out and no abnormalities were observed along the transmission line corridor. The line was found to be healthy. Continuous patrolling and monitoring of the line are being carried out
Time and Date of the event (घटना का समय और दिनांक)	:	24-09-2026 10:49
Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	:	AMGEPL_SOLAR - 400KV
Event Category (श्रेणी के साथ इवेंट प्रकार)	:	GD - 1
Location/Control Area (स्थान/नियंत्रण क्षेत्र)	:	ANDHRA PRADESH
Configuration of Bus (HV/LV) . Along with details of Bus split Operation (if any)	:	

Bus Configuration Type : Double Bus with Bus coupler

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 400KV/33KV AMGEPL_SOLAR-ICT-1 2. 400KV/33KV AMGEPL_SOLAR-ICT-2	1. 400KV/33KV AMGEPL_SOLAR-ICT-3		

Station Connectivity / SLD during antecedent	:	AMGEPL Solar PSS was connected to CPSS and PGCIL Grid through the 400 kV transmission line as per the approved SLD. All systems were healthy and in service prior to the event. Post-trip patrolling was conducted and no abnormalities were observed. Continuous monitoring and patrolling of the line are being carried out
Weather Conditions	:	Cloudy
Elements under outage prior to the event	:	1. AMGEPL_SOLAR - 400KV
Other Information (Antecedent Cnditions)	:	Line tripped due to Over Voltage. Patrolling was conducted after the incident and no abnormalities were observed. The line was found healthy, and 400kv line charged at 13:00 Hrs.
Renewable Energy Trip	:	False
Details of SPS Operation (if any):	:	False
Reason of tripping	:	Over Voltage Tripping
Voltage R - Phase (kV)	:	354.0
Voltage Y - Phase (kV)	:	334.0
Voltage B - Phase (kV)	:	316.0
DT Signal recieved at remote end	:	True

DT Signal sent to remote end : True

Load and Generation Loss (लोड और जेनरेशन हानि) :

Total Generation Loss (MW)	Total Load Loss(MW)
272.9 MW	599.1 MW

Duration of interruption (रुकावट की अवधि) :

Details of Equipment Failure (if any during the event): :

Equipment Type	Equipment Make

List of elements tripped during the event : 1. AMGEPL_SOLAR - 400KV

Station Connectivity/SLD during the event :

Analysis of the event : On 24.09.2026 at 10:49 Hrs, both Solar and Wind PSS lines tripped due to operation of Over Voltage protection. Preliminary SCADA event analysis indicates a grid-side voltage rise resulting in simultaneous tripping of both lines.

Protection / Operational Issues observed : Line tripped on Over Voltage protection. Protection system operated correctly

Restoration Details : 400kv line along with associate element was restored at 13:00 Hrs after obtaining the necessary clearances. The transmission line was charged successfully and restored to normal service.

DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या) : False

Remedial Measures Taken (सुधारात्मक सुझाव) : DR and SCADA events analyzed. System restored after normalization of grid voltage.

		Protection settings and event records reviewed, and continuous monitoring of grid voltage is being carried out.
Relay/PLCC Operation Details	:	
Control Panel Anunciation	:	
Main I Relay Indications	:	
Main II Relay Indications	:	
Other Relay Indications	:	
PLCC Counter Increment I/T	:	
PLCC Counter Increment D/T	:	
Fault Current Value (kAmp)	:	None
LA Counter	:	R-4 ,Y-4 B-7
Remarks	:	
Attachments	:	1. SLD/Connectivity Diagram