Detailed Report

Date of Submission : 09-10-2026 11:03

SAEL2 - 220KV tripped at ***05-10-2026 15:38*** and restored at ***06-10-2026 18:27***

Summary of Event (घटना का सारांश)	:	On 05-10-2026, the transmission line tripped at 15:38 hrs on a B-phase differential fault. Based on fault analysis, the fault location was estimated at approximately 7 km. Rainy and windy weather conditions were prevailing at the time of the tripping event. During the subsequent detailed inspection, failure of the B-phase insulator was identified at Transmission Line Tower No. 12/8. The faulty insulator was subsequently replaced with a new insulator, and the transmission line was restored to normal operation on 06-10-2026 at 18:27 hrs.
Time and Date of the event (घटना का समय और दिनांक)	:	05-10-2026 15:38
Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	:	SAEL2 - 220KV
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 :

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements

Station Connectivity / SLD during antecedent :

Weather Conditions : Rainy, Windy

Elements under outage prior to the event :

Other Information (Antecedent Cnditions) : "On 05-10-2026, the transmission line tripped at 15:38 hrs on a B-phase differential fault. Based on fault analysis, the fault location was estimated at approximately 7 km. Rainy and windy weather conditions were prevailing at the time of the tripping event. During the subsequent detailed inspection, failure of the B-phase insulator was identified at Transmission Line Tower No. 12/8. The faulty insulator was subsequently replaced with a new insulator, and the transmission line was restored to normal operation on 06-10-2026 at 18:27 hrs

Renewable Energy Trip : True

Details of SPS Operation (if any): : False

Reason of tripping : Others

Other Reason : Line differential fault occurred due to the Insulator failure.

Load and Generation Loss (लोड और जेनरेशन हानि) :

Solar Generation Loss (MW)	Wind Generation Loss (MW)	Other Generation Loss (MW)	Total Generation Loss (MW)	Total Load Loss(MW)
249 MW	0 MW	0 MW	250 MW	250 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.

Station Connectivity/SLD during the event :

Analysis of the event : "On 05-10-2026, the transmission line tripped at 15:38 hrs on a B-phase differential fault. Based on fault analysis, the fault location was estimated at approximately 7 km. Rainy and windy weather conditions were prevailing at the time of the tripping event. During the subsequent detailed inspection, failure of the B-phase insulator was identified at Transmission Line Tower No. 12/8. The faulty insulator was subsequently replaced with a new insulator, and the transmission line was restored to normal operation on 06-10-2026 at 18:27 hrs

Protection / Operational Issues observed :

Restoration Details :

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

Remedial Measures Taken (सुधारात्मक सुझाव) : "On 05-10-2026, the transmission line tripped at 15:38 hrs on a B-phase differential fault. Based on fault analysis, the fault location was estimated at approximately 7 km. Rainy and windy weather conditions were prevailing at the time of the tripping event. During the subsequent detailed

		inspection, failure of the B-phase insulator was identified at Transmission Line Tower No. 12/8. The faulty insulator was subsequently replaced with a new insulator, and the transmission line was restored to normal operation on 06-10-2026 at 18:27 hrs
Relay/PLCC Operation Details	:	
Control Panel Anunciation	:	MAIN-01 DIFF OPTD, MAIN-02 DIFF OPTD ,86A OPTD, 86B OPTD
Main I Relay Indications	:	DIFF OPTD, B-PHASE OPTD
Main II Relay Indications	:	DIFF OPTD
Other Relay Indications	:	
PLCC Counter Increment I/T	:	0
PLCC Counter Increment D/T	:	0
Fault Current Value (kAmp)	:	14.2
LA Counter	:	0
Remarks	:	
Attachments	:	