Detailed Report

Date of Submission : 28-09-2026 10:31

UPPER_SILERU - 220KV tripped at ***05-09-2026 14:06*** and restored at ***05-09-2026 14:45***

Summary of Event (घटना का सारांश)	:	On 05.09.2026 @ 14:06 hrs, at Upper Sileru Power House complete Bus outage occurred due to the operation of 220 KV USPH - BML feeder LBB protection
Time and Date of the event (घटना का समय और दिनांक)	:	05-09-2026 14:06
Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	:	UPPER_SILERU - 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 : Single Main and Transfer Bus

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 220KV-DONKARAYI-UPPER_SILERU-1			

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
2. 220KV-PENDURTHI-UPPER_SILERU-1 3. 220KV-UPPER_SILERU-BALIMELA-1			

Station Connectivity / SLD during antecedent :

Weather Conditions : Normal

Elements under outage prior to the event :

Other Information (Antecedent Cnditions) :

Renewable Energy Trip : False

Details of SPS Operation (if any): : False

Reason of tripping : Fault Tripping

Type of Fault : SLG

phases inv :

Auto Reclosure Operation :

Fault Clearing Time (ms) : None

Load and Generation Loss (लोड और जेनरेशन हानि) :

Total Generation Loss (MW)	Total Load Loss(MW)
0 MW	0 MW

Duration of interruption (रुकावट की अवधि) :

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

Equipment Type	Equipment Make
CB	CGL

List of elements tripped during the event :

1. 220KV-DONKARAYI-UPPER_SILERU-1
2. 220KV-PENDURTHI-UPPER_SILERU-1
3. 220KV-UPPER_SILERU-BALIMELA-1
4. UPPER_SILERU - 220KV

Station Connectivity/SLD during the event :

Analysis of the event : 220 KV Upper Sileru - Balimela feeder got tripped on B ph to earth fault. During tripping time, its CB B Ph limb got stuck in close position due to which the remaining feeders and 220 KV Upper Sileru Station got tripped

Protection / Operational Issues observed :

Restoration Details :

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

Remedial Measures Taken (सुधारात्मक सुझाव) :

•After antecedent condition the shift in charge thoroughly inspected the 220 KV Switch yard and found that B-phase Limb of the 220 KV USPH-BML Feeder Circuit Breaker is in closed position and remaining all 220 KV Bays in Switch yard are found to be normal and informed to Maintenance wing ,then Both BUS and Line isolators of 220 KV USPH-BML Feeder Circuit Breaker are opened

•As per Instructions of SLDC The 220 KV Upper Sileru – Pendurthy Feeder was test charged

on 05.09.2026 @ 14:45 Hrs from Pendurthy end and also charged from Upper Sileru Power House end at the same time and stood OK.

•The 220 KV Upper Sileru – Donkarayi Feeder was test charged on 05.09.2026 @ 14:49 Hrs from Upper Sileru end and charged from Donkarayi end at the same time and stood OK.

•On 07.09.2026, at 09:56 Hrs, the 220 KV USPH-BML Feeder idle charged from Balimela end after rectification of faulty roller mechanism of B-phase limb of 220 KV USPH-BML Feeder Circuit Breaker

Relay/PLCC Operation Details	:	
Control Panel Anunciation	:	Main I/ Main II Distance protection operated, Breaker failure protection operated, Trip coil 1 & 2 faulty, CB pole discrepancy operated, Bus bar protection operated
Main I Relay Indications	:	SOTF, B-Ph, LBB, Zone-1 Trip, Zone-4 Trip
Main II Relay Indications	:	LBB Trip, Zone 1, B-Ph
Other Relay Indications	:	
PLCC Counter Increment I/T	:	
PLCC Counter Increment D/T	:	
Fault Current Value (kAmp)	:	1.829
LA Counter	:	
Remarks	:	
Attachments	:	1. Others 2. Others