

Detailed Report

Date of Submission : 05-05-2026 15:51

UDANGUDI - 400KV tripped at 29-04-2026 12:58 and restored at 29-04-2026 15:25

Summary of Event (घटना का सारांश) :

Time and Date of the event (घटना का समय और दिनांक) : 29-04-2026 12:58

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : UDANGUDI - 400KV

Event Category (श्रेणी के साथ इवेंट प्रकार) : GD - 1

Location/Control Area (स्थान/नियंत्रण क्षेत्र) : TAMILNADU

Configuration of Bus (HV/LV) . Along with details of Bus split Operation (if any) :

Bus Configuration Type : One and half breaker

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 400KV-OTTAPIDARAM-UDANGUDI-2	1. 400KV-OTTAPIDARAM-UDANGUDI-1		

Station Connectivity / SLD during antecedent :

Weather Conditions : Windy

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 : No

Fault Clearing Time (ms) : 106.0

Load and Generation Loss (लोड और जेनरेशन हानि) :

Total Generation Loss (MW)	Total Load Loss(MW)
0 MW	26 MW

Duration of interruption (रुकावट की अवधि) :

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

Equipment Type	Equipment Make
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List of elements tripped during the event :
1. 400KV-OTTAPIDARAM-UDANGUDI-1
2. 400KV-OTTAPIDARAM-UDANGUDI-2

Station Connectivity/SLD during the event :

Analysis of the event : In 400KV Udangudi GIS Switchyard SS, during a single phase to ground line fault in 400KV Ottapidaram-1 on 29.04.2026 at 12.57

hrs, the feeder tripped and AR lockout at both ends.

Protection / Operational Issues observed : LBB Relay in the TIE breaker (Bay-413) Configuration issue observed. False tripping observed during the fault.

Restoration Details : Ottapidaram Line-1 Normalised on 29.04.2026 at 17:07 hrs
Ottapidaram Line-2 Normalised on 29.04.2026 at 17:17 hrs and the Power restored back in the 400kV GIS.

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

Remedial Measures Taken (सुधारात्मक सुझाव) : Nil

Relay/PLCC Operation Details :

Control Panel Anunciation : DIST PROT B PH TRIP, LBB OPTD, AUTORECLOSE LOCKOUT, 86 A/B OPERATED

Main I Relay Indications : TRIP, B PHASE OPTD, ZONE-1 OPTD, CRY RX

Main II Relay Indications : TRIP, B PHASE OPTD, ZONE-1 OPTD, CARR RECEIVE, AR L/O OPTD, MAIN CB R-PH OPEN, MAIN CB Y-PH OPEN, MAIN CB B-PH OPEN, TIE CB R-PH OPEN, TIE CB Y-PH OPEN, TIE CB B-PH OPEN

Other Relay Indications :

PLCC Counter Increment I/T : 1/1

PLCC Counter Increment D/T : 1/0

Fault Current Value (kAmp) : 3.17

LA Counter :

Remarks :

Attachments :

