

# Detailed Report

Date of Submission : 05-05-2026 11:53

UDANGUDI - 400KV tripped at 30-04-2026 14:24 and restored at 30-04-2026 15:59

Summary of Event (घटना का सारांश) :

Time and Date of the event (घटना का समय और दिनांक) : 30-04-2026 14:24

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** : Normal

**Elements under outage prior to the event** :

**Other Information (Antecedent Conditions)** :

**Renewable Energy Trip** : False

**Details of SPS Operation (if any):** : False

**Reason of tripping** : Fault Tripping

Type of Fault : SLG

phases inv : None, None

Auto Reclosure Operation : No

Fault Clearing Time (ms) : 50.0

**Load and Generation Loss (लोड और जेनरेशन हानि)** :

Total Generation Loss (MW)	Total Load Loss(MW)
156.8 MW	156.8 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. 400KV-OTTAPIDARAM-UDANGUDI-1  
2. 400KV-OTTAPIDARAM-UDANGUDI-2  
3. 400KV/11KV UDANGUDI-ST-1  
4. 400KV/21KV UDANGUDI-GT-1  
5. UDANGUDI - UNIT 1

**Station Connectivity/SLD during the event** :

<b>Analysis of the event</b>	:	In 400KV Udangudi GIS Switchyard SS, during a single phase to ground line fault in 400KV Ottapidaram-1 on 30.04.2026 at 14.24 hrs, the feeder tripped and AR lockout at both ends.
<b>Protection / Operational Issues observed</b>	:	LBB Relay in the TIE breaker (Bay-413) Configuration issue observed. False tripping observed during the fault.
<b>Restoration Details</b>	:	Ottapidaram Line-2 Normalised on 30.04.2026 at 15.59 hrs and the Power restored back in the 400kV GIS.
<b>DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)</b>	:	False
<b>Remedial Measures Taken (सुधारात्मक सुझाव)</b>	:	<p>Configuration and Settings were verified and corrections were made in the LBB protection scheme and ensured it by testing the relay.</p> <p>Line Pattrolling Initiated and Checked the line and tree cuts were made nearby the fault location.</p> <p>Tower Location - 39-40, 52-53, 94-95</p>
<b>Relay/PLCC Operation Details</b>	:	
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) : 6.699

LA Counter :

Remarks : The Ottapidaram Line-2 Feeder was  
normalized on 30.04.2026 at 15.59 hrs.

**Attachments** :