

Detailed Report

Date of Submission : 16-04-2026 12:40

TTPS - 230KV tripped at 17-03-2026 15:15 and restored at 17-03-2026 16:08

Summary of Event (घटना का सारांश) : For a line fault , Kayathar #1 Y phase limb got failed and fault current did not reduce for more than 200 msec hence 50 LBB operated.All the elements connected in Main bus 2 got tripped.

Time and Date of the event (घटना का समय और दिनांक) : 17-03-2026 15:15

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : TTPS - 230KV

Event Category (श्रेणी के साथ इवेंट प्रकार) : GI-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 : 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. 230KV- KUDANKULAM-TTPS 2. 230KV- KAYATHAR(TN)-TTPS- 1		

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
	3. TTPS - 230KV - Bus 2		

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 : Others

Other Reason : 50 LBB operated in Kayathar #1 which is connected in Main Bus 2 .

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
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List of elements tripped during the event :
1. 230KV-KAYATHAR(TN)-TTPS-1
2. 230KV-KUDANKULAM-TTPS
3. TTPS - 230KV - Bus 2

Station Connectivity/SLD during the event

:

Analysis of the event

:

Kayathar #1 Y phase limb got failed for a line fault and fault current did not reduce for more than 200 msec hence 50 LBB operated.All the elements in the Bus 2 got tripped and Bus 2 became dead.

Protection / Operational Issues observed

:

Nil

Restoration Details

:

Bus 2 was energised by closing Bus section 1 breaker at 16.08 hrs on 17.03.2026

DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)

:

False

Remedial Measures Taken (सुधारात्मक सुझाव)

:

After isolating the Kayathar #1 breaker , Bus 2 was energised through bus section 1 breaker (from Bus 1) at 16.08 hrs and bus section 2 breaker was closed at 16.10 hrs on the same day.

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

:

Remarks

:

Attachments

:

