

Detailed Report

Date of Submission : 10-06-2026 16:46

NCTPS STG3 - 765KV tripped at 09-06-2026 20:10 and restored at

Summary of Event (घटना का सारांश) : The NCTPS Stage 3 was under generation with unit load of 547MW. Power was evacuated through the remote end substation 765kV NCPS - Ariyalur feeder#2. The 765kV Ariyalur Feeder#1 was already under fault tripped condition. Under these conditions the 765kV NCPS - Ariyalur feeder#2 fault tripped and the NCTPS STG3 unit got tripped due to non availability of transmission line for power evacuation.

Time and Date of the event (घटना का समय और दिनांक) : 09-06-2026 20:10

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : NCTPS STG3 - 765KV

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. NCTPS STG3 - 765KV - Bus 1 2. 765KV-NCPS-NCTPS STG3-1 3. 765KV/27KV NCTPS STG3-GT-1	1. NCTPS STG3 - 765KV - Bus 2 2. 765KV-NCPS-NCTPS STG3-2		

Station Connectivity / SLD during antecedent : The NCTPS Stage 3 was under generation with unit load of 547 MW. Power was evacuated through the remote end substation 765kV NCPS- Ariyalur feeder#2 .The 765kV Ariyalur feeder #1 was already under fault tripped condition.

Weather Conditions : Rainy

Elements under outage prior to the event : 1. NCTPS STG3 - 765KV - Bus 1

Other Information (Antecedent Cnditions) :

Renewable Energy Trip : False

Details of SPS Operation (if any): : False

Reason of tripping : Others

Other Reason : Bus outage due 765kV supply failure

Load and Generation Loss (लोड और जेनरेशन हानि) :

Total Generation Loss (MW)	Total Load Loss(MW)
547 MW	507 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. 765KV/27KV NCTPS STG3-GT-1
2. NCTPS STG3 - UNIT 1

Station Connectivity/SLD during the event :

Analysis of the event :

Protection / Operational Issues observed :

Restoration Details :

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

Remedial Measures Taken (सुधारात्मक सुझाव) :

Relay/PLCC Operation Details :

Control Panel Anunciation : Class 186A1

Main I Relay Indications : Low forward, Under voltage and Under frequency

Main II Relay Indications : Low forward, Under voltage and Under frequency

Other Relay Indications : 86C and 86D

PLCC Counter Increment I/T :

PLCC Counter Increment D/T :

Fault Current Value (kAmp) : None

LA Counter :

Remarks :

Attachments :

