

# Detailed Report

Date of Submission : 22-06-2026 12:29

NCTPS STG3 - 765KV tripped at 20-06-2026 16:08 and restored at 20-06-2026 21:15

**Summary of Event (घटना का सारांश)** : The NCTPS Stage 3 was under generation with unit load of 522MW. Under this conditions the 765kV NCPS – feeder #1 and# 2 tripped at NCTPS 3 end due to DT received from NCPS M2 CH2 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)** : 20-06-2026 16:08

**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. 765KV-NCPS-NCTPS STG3-1 | 1. 765KV-NCPS-NCTPS STG3-2 |                          |                          |

| Bus 1 Connected Elements         | Bus 2 Connected Elements | Bus 3 Connected Elements | Bus 4 Connected Elements |
|----------------------------------|--------------------------|--------------------------|--------------------------|
| 2. 765KV/27KV NCTPS<br>STG3-GT-1 |                          |                          |                          |

**Station Connectivity / SLD during antecedent** : The NCTPS Stage 3 was under generation with unit load of 522MW. Under this conditions the 765kV NCPS – feeder #1 and# 2 tripped at NCTPS 3 end due to DT received from NCPS M2 CH2 and the NCTPS STG3 unit also got tripped due to non availability of transmission line for power evacuation.

**Weather Conditions** : Normal

**Elements under outage prior to the event** :  
 1. NCTPS STG3 - 765KV - Bus 1  
 2. NCTPS STG3 - 765KV - Bus 2  
 3. 765KV/27KV NCTPS STG3-GT-1  
 4. NCTPS STG3 - UNIT 1

**Other Information (Antecedent Cnditions)** :

**Renewable Energy Trip** : False

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

**Reason of tripping** : Others

**Other Reason** : DT received from NCPS- M2/CH2

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

| Total Generation Loss (MW) | Total Load Loss(MW) |
|----------------------------|---------------------|
| 522 MW                     | 482 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. 765KV-NCPS-NCTPS STG3-1  
2. 765KV-NCPS-NCTPS STG3-2  
3. 765KV/27KV NCTPS STG3-GT-1  
4. NCTPS STG3 - UNIT 1

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

**Analysis of the event** :

**Protection / Operational Issues observed** :

**Restoration Details** : 765kV supply resumed at 21.15hrs on 20.06.26.

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

**Remedial Measures Taken (सुधारात्मक सुझाव)** :

**Relay/PLCC Operation Details** :

Control Panel Anunciation : class 86A1

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 :**