

# Detailed Report

Date of Submission : 05-06-2026 14:32

**NCTPS STG3 - 765KV** tripped at **03-06-2026 18:34** and restored at **03-06-2026 21:21**

**Summary of Event (घटना का सारांश)** : The NCTPS Stage 3 was under generation with unit load of 525MW. 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)** : 03-06-2026 18:34

**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<br>2. 765KV-NCPS-NCTPS STG3-1<br>3. 765KV/27KV NCTPS STG3-GT-1 | 1. NCTPS STG3 - 765KV - Bus 2<br>2. 765KV-NCPS-NCTPS STG3-2 |                          |                          |

**Station Connectivity / SLD during antecedent** : The NCTPS Stage 3 was under generation with unit load of 525MW. 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** : 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** : Bus outage due 765kV Supply Failure

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

| Total Generation Loss (MW) | Total Load Loss(MW) |
|----------------------------|---------------------|
| 525 MW                     | 490 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/27KV NCTPS STG3-GT-1<br>2. NCTPS STG3 - UNIT 1 |
| Station Connectivity/SLD during the event                         | : |                                                         |
| Analysis of the event                                             | : |                                                         |
| Protection / Operational Issues observed                          | : |                                                         |
| Restoration Details                                               | : | 765kV Supply resumed at 03.06.2026 at 21:21Hrs          |
| 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                                           | : |                                                         |
| PLCC Counter Increment I/T                                        | : |                                                         |
| PLCC Counter Increment D/T                                        | : |                                                         |
| Fault Current Value (kAmp)                                        | : | None                                                    |
| LA Counter                                                        | : |                                                         |
| Remarks                                                           | : |                                                         |

**Attachments**

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