

# Detailed Report

Date of Submission : 31-03-2026 13:04

KARAIKUDI(TN) - 230KV tripped at 26-03-2026 17:57 and restored at 26-03-2026 21:47

Summary of Event (घटना का सारांश) : 230kV Bus-A ,B phase jumper cut occurs between N.T.Kudi-1 bay to Kavanur-3 bay ,Bus-A B phase BB operated in Bus-A connected elements only tripped  
230kV Bus B & 110kV Bus found stable

Time and Date of the event (घटना का समय और दिनांक) : 26-03-2026 17:57

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : KARAIKUDI(TN) - 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 : Double Bus with Bus coupler

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 230KV-KARAIKUDI(TN)-KAVANUR-1	1. 230KV-KARAIKUDI-KARAIKUDI(TN)-2 2. 230KV-KARAIKUDI(TN)-		

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
2. 230KV- KARAIKUDI(TN)- KAVANUR-4 3. 230KV- KARAIKUDI(TN)- KAVANUR-3 4. 230KV-KARAIKUDI- KARAIKUDI(TN)-1 5. 230KV- KARAIKUDI(TN)- KARAMBAYAM-1 6. KARAIKUDI(TN) - 230KV - Bus 1	KARAMBAYAM-2 3. 230KV- KARAIKUDI(TN)- KAVANUR-2		

**Station Connectivity / SLD during antecedent** : Double bus with Bus Coupler

**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** : Fault Tripping

Type of Fault : SLG

phases inv : None, None

Auto Reclosure Operation : No

Fault Clearing Time (ms) : 55.0

**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-KARAIKUDI(TN)-KAVANUR-1  
 2. 230KV-KARAIKUDI(TN)-KAVANUR-3  
 3. 230KV-KARAIKUDI(TN)-KAVANUR-4  
 4. 230KV-KARAIKUDI-KARAIKUDI(TN)-1  
 5. 230KV-KARAIKUDI(TN)-KARAMBAYAM-1

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

**Analysis of the event** :  
 230kV BUS A jumper cut in B phase in between NT kudy bay & Kavanur feeder.3 bay hence bus bar operated in Bus.A and all elements connected in Bus A go tripped  
  
 230kV Bus B & 110kV side found stable

**Protection / Operational Issues observed** : NO

**Restoration Details** :

Name of element	Restoration date & time
Auto-Tr-1 in Bus-B	18.16/26.03.26
Kavanur-1 in Bus-B	18.59/26.03.26
Kavanur-3 in Bus-B	19.01/26.03.26
PGCIL-1 in Bus-B	21.31/26.03.26

N.T.KUDI-1 in Bus-B	21.39/26.03.26
Kavanur-4 in Bus-A	21.47/26.03.26

After attending B phase JUmper cut in Bus A the above elements were restored to Bus A

230kV Bus Coupler	06.37/27.03.26
Auto-Tr-1 in Bus-A	06.40/27.03.26
Kavanur-1 in Bus-A	06.42/27.03.26
Kavanur-3 in Bus-A	06.49/27.03.26
PGCIL-1 in Bus-A	06.53/27.03.26
N.T.KUDI-1 in Bus-B	06.47/27.03.26

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

: False

**Remedial Measures Taken (सुधारात्मक सुझाव)**

: All elements connected in BUS A transferrerd to Bus B

**Relay/PLCC Operation Details**

:

Control Panel Anunciation

:

230kV Bus-A ,Busbar Protection operated

Main I Relay Indications

:

87BC: BUS-1 BB Trip,

Main II Relay Indications

:

nil

Other Relay Indications

:

PLCC Counter Increment I/T

:

PLCC Counter Increment D/T

:

Fault Current Value (kAmp)

:

6.0

LA Counter :

Remarks :

**Attachments :**