

# Detailed Report

Date of Submission : 08-04-2026 13:19

**ECHUR - 230KV** tripped at **05-04-2026 23:39** and restored at **06-04-2026 00:40**

**Summary of Event (घटना का सारांश)** : Echur 230kVSS is having two source one is from Maps & other source is from Arani 230kVSS.

During the incident, Arani source failure due to 110kV Y phase Bus PT failed & hence all 230kV source feeder of Arani 230kVSS got tripped

During that time 230kV Maps feeder of Echur 230kVSS also tripped hence source failure observed

**Time and Date of the event (घटना का समय और दिनांक)** : 05-04-2026 23:39

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

**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 : Single Bus

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 230KV-ARNI-ECHUR-1 2. 230KV-MAPS-ECHUR-1			

**Station Connectivity / SLD** :

during antecedent

**Weather Conditions** : Normal

**Elements under outage prior to the event** :

**Other Information (Antecedent Cnditions)** : At Echur 230kV SS all 230kV source feeder breakers as well as all 110 kV bays breakers are holding

**Renewable Energy Trip** : False

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

**Reason of tripping** : Others

Other Reason : Source failure

**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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<b>List of elements tripped during the event</b>	:	1. 230KV-MAPS-ECHUR-1
<b>Station Connectivity/SLD during the event</b>	:	
<b>Analysis of the event</b>	:	<p>On 05.04.2026 at 11.39 hrs., at Echur 230kV SS, 230kV Arani feeder supply failed due to 110kV bus PT (Y-Phase) failure at Arani 230kV SS. Subsequently Echur 230kV SS become radial from Kalpakkam.</p> <p>Simultaneously 230kV Kalpakkam feeder supply failed due to feeder Distance Protection operated (A, B(y), C, 52.9 kM, fault duration - 900ms, fault impedance - 2.23 ohms) at Kalpakkam end and hence at Echur 230kV SS total supply failure occurred.</p> <p>At Echur 230kV SS, all 230kV source feeder breakers as well as all 110kV bays breakers are holding.</p> <p>On 06.04.2026, at about 00.40 hrs., Echur SS availed 230kV Supply from Arani 230kV SS.</p> <p>On 06.04.2026 at about 00.55 hrs., after got the SRLDC code, 230kV Kalpakkam feeder charged from Echur end and tied at Kalpakkam end at about 01.17 hrs. on 06.04.2026.</p>
<b>Protection / Operational Issues observed</b>	:	NIL
<b>Restoration Details</b>	:	
<b>DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)</b>	:	False
<b>Remedial Measures Taken (सुधारात्मक सुझाव)</b>	:	NIL
<b>Relay/PLCC Operation Details</b>	:	

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	:	
<b>Attachments</b>	:	