Detailed Report

Date of Submission : 04-10-2026 12:44

S R PUDUR - 230KV tripped at ***01-10-2026 17:47*** and restored at ***01-10-2026 18:10***

Summary of Event (घटना का सारांश)	:	230kV BBP (kept out of service) due to Y phase faulty from 07-05-2026, M/s. ABB has attended the faulty Y phase but couldnot put into service due to firmware issue. The same was informed to M/s. ABB. OEM take initiation to resolve the issue. SR Pudur is having Main & Transfer scheme with 2 No of 230kV feeders (SR Pudur & Sanganeri) Three Auto Transformers (230/110kV_ 100MVA) and in parallel condition Total Ten 110kV feeders out of 10, 4 feeders namely 110kV Arumuganeri, Kodayar, Sanganeri & Udayathur feeder)were in Grid status. During triggering incident Udayathur Line is idly charged from Udayathur. Other 110kV feeders were in Radial status. During Normalisation of HV side main breaker in Auto Tr.1 from Bus coupler breaker substitution, The Y phas supporting insulator of BC breaker broken hence bus fault occured. Due to non availbility of 230kV BBP. feeder protection clear the fault. Hence source failure observed in 230kV and 110kV Bus
Time and Date of the event (घटना का समय और दिनांक)	:	01-10-2026 17:47

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	:	S R PUDUR - 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 Main and Transfer Bus

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 230KV-KUDANKULAM-S R PUDUR 2. 230KV-SANGANERI-S R PUDUR-1			

Station Connectivity / SLD during antecedent	:	110kV Udayathur feeder was Radially charged from Udayathur during the incident
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)	:	None
Load and Generation Loss (लोड और जेनरेशन हानि)	:	

Total Generation Loss (MW)	**Total Load Loss(MW)**
138 MW	248 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. 230KV-KUDANKULAM-S R PUDUR
2. 230KV-SANGANERI-S R PUDUR-1

Station Connectivity/SLD during the event :

Analysis of the event : Antecedt condition

230kV BBP (kept out of service) due to Y phase faulty from 07-05-2026, M/s. ABB has attended the faulty Y phase but couldnot put into service due to firmware issue. The same was informed to M/s. ABB. OEM take initiation to resolve the issue.

SR Pudur is having Main & Transfer scheme with 2 No of 230kV feeders (SR Pudur & Sanganeri)

Three Auto Transformers (230/110kV_ 100MVA) and in parallel condition

Total Ten 110kV feeders out of 10, 4 feeders namely 110kV Arumuganeri, Kodayar, Sanganeri & Udayathur feeder)were in Grid status. During triggering incident Udayathur Line is idly charged from Udayathur. Other 110kV feeders were in Radial status.

During Normalisation of HV side main breaker in Auto Tr.1 from Bus coupler breaker substitution, The Y phas supporting insulator of BC breaker broken hence bus fault occured. Due to non availbility of 230kV BBP. feeder protection clear the fault. Hence source failure observed in 230kV and 110kV Bus

Protection / Operational Issues observed : 230kV BBP out of service

Non operation of reverse zone in 230kV Kudankulam feeder

Restoration Details :

Name of element	Restoration date & time
110kV Sanganeri # tripped at opposite end	01-10-26 @ 18:10
230kV Sanganeri # at SR.Pudur end	01-10-26 @ 18:18
110kV Kodayar # tripped at opposite end	01-10-26 @ 18:20
	01-10-26 @ 18:24
	01-10-26 @ 19:04

110kV Arumuganeri1 tripped at opposite end 230kV Kudankulam # tripped at Koodankulam end		

DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)	:	True
Remedial Measures Taken (सुधारात्मक सुझाव)	:	Non operation reverse zone at 230kV SRpudhur_KKLm feeder has to be checked. Action is being taken to bring the 230kV BBP in service shortly. Time Sync issue at SR pudhur will be attended
Relay/PLCC Operation Details	:	
Control Panel Anunciation	:	
Main I Relay Indications	:	230kV SNRI#: Y, N, Z4, 0 km, 3.4kA
Main II Relay Indications	:	230kV SNRI#: Y, N, Z4, 0. 8km, 3.47kA
Other Relay Indications	:	
PLCC Counter Increment I/T	:	
PLCC Counter Increment D/T	:	
Fault Current Value (kAmp)	:	3.4
LA Counter	:	
Remarks	:	
Attachments	:	1. Others