

Detailed Report

Date of Submission : 03-08-2026 16:45

SIMHADRI - 400KV tripped at 03-08-2026 00:17 and restored at 03-08-2026 16:24

Summary of Event (घटना का सारांश) :

Time and Date of the event (घटना का समय और दिनांक) : 03-08-2026 00:17

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : SIMHADRI - 400KV

Event Category (श्रेणी के साथ इवेंट प्रकार) : GI-2

Location/Control Area (स्थान/नियंत्रण क्षेत्र) : ANDHRA PRADESH

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. 420KV/21KV SIMHADRI-GT-4 2. 400KV-SIMHADRI-GAZUWAKA-2 3. 400KV-VEMAGIRI_PG-SIMHADRI-2 4. 420KV/21KV SIMHADRI-GT-3	

Station Connectivity / SLD during antecedent : All breakers are in ON condition

Weather Conditions : Normal

Elements under outage prior to the event :

Other Information (Antecedent Cnditions) : During U#4 planned shutdown , unit was manual tripped.Generator lockout relay operated at 00:17:54:986 Hrs

427 breaker_ Tie CB to GT#4 and ST#2 bays was opened at 00:17:55:030 Hrs.However,428 breaker_R-pole of GT#4 Main breaker found not opened.

At 00:17:15:216 Hrs, LBB relay was operated, All connected breakers got tripped.

At 00:17:55:626 Hrs, 428 breaker_GT#4 Main breaker got opened.

Renewable Energy Trip : False

Details of SPS Operation (if any): : False

Reason of tripping : Fault Tripping

Type of Fault :

phases inv : None

Auto Reclosure Operation : No

Fault Clearing Time (ms) : 230.0

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.

Station Connectivity/SLD during the event :

Analysis of the event : Generator -4 out for Planned Shutdown (overhauling)

428 Breaker R pole delayed Open triggered LBB relay optd and BUS-3 got tripped.

Protection / Operational Issues observed : 428 bay LBB operated

Restoration Details : At 02:32 Hrs on 03.08.2026, bus-3 restored.

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

Remedial Measures Taken (सुधारात्मक सुझाव) : Breaker OH and Testing planned in this OH

Relay/PLCC Operation :
Details

Control Panel Anunciation : 428 LBB int,ZB BFP Trip ,428 TC1 &2 faulty

Main I Relay Indications : 428 LBB int,ZB BFP Trip ,

Main II Relay Indications : 428 LBB int,ZB BFP Trip ,

Other Relay Indications : in 428 BCU TC1 &2 faulty & In 427 BCU LBB
OPTD

PLCC Counter Increment I/T :

PLCC Counter Increment D/T :

Fault Current Value (kAmp) : 0.05

LA Counter :

Remarks :

Attachments :