

Detailed Report

Date of Submission : 11-06-2026 17:06

KALPAKKA - 400KV tripped at 09-06-2026 19:26 and restored at 10-06-2026 15:50

Summary of Event (घटना का सारांश) : 4" IPS pipe connecting in 424 Bay(PGCIL-2 Bay) in R-Phase (Between Line isolator and TBC isolator) disconnected causing fault. And 400 kV kalapaka PGCIL 1 feeder tripped on RY differential trip conductor snapped between location 2-3

Time and Date of the event (घटना का समय और दिनांक) : 09-06-2026 19:26

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : KALPAKKA - 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 : Double main and transfer bus scheme

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 400KV-HINDUJA-KALPAKKA-1	1. 400KV-HINDUJA-KALPAKKA-2	1. 400KV/220KV KALPAKKA-ICT-3 2. 400KV-SIMHADRI-	1. 400KV-GAZUWAKA-KALPAKKA-1

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
2. 400KV-SIMHADRI-KALPAKKA-3 3. 400KV-MARADAM-KALPAKKA-1 4. 400KV/220KV KALPAKKA-ICT-2	2. 400KV-SIMHADRI-KALPAKKA-4 3. 400KV-MARADAM-KALPAKKA-2 4. 400KV/220KV KALPAKKA-ICT-1	KALPAKKA-2 3. 400KV-KALPAKKA-VEMAGIRI_AP-1 4. 400KV-GAZUWAKA-KALPAKKA-2	

Station Connectivity / SLD during antecedent : Enclosed

Weather Conditions : Normal

Elements under outage prior to the event : 1. 400KV-KALPAKKA-ASUPAKA-1
2. 400KV-KALPAKKA-KHAMMAM_PG-2

Other Information (Antecedent Cnditions) : 400 kV Bus-3 protection operated tripping all the feeders and ICT's connected to Bus-3 and send DT to other end

Renewable Energy Trip : False

Details of SPS Operation (if any): : False

Reason of tripping : Others

Other Reason : 4" IPS pipe connecting in 424 Bay(PGCIL-2 Bay) in R-Phase (Between Line isolator and TBC isolator) disconnected causing fault. And 400 kV kalapaka PGCIL 1feeder tripped on RY differential trip conductor snapped between location 2-3

Load and Generation Loss (लोड और जेनरेशन हानि) :

Total Generation Loss (MW)	Total Load Loss(MW)
330 MW	11 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. 400KV-SIMHADRI-KALPAKKA-2
2. 400KV-KALPAKKA-VEMAGIRI_AP-1
3. 400KV-GAZUWAKA-KALPAKKA-2
4. 400KV-GAZUWAKA-KALPAKKA-1
5. 400KV/220KV KALPAKKA-ICT-3

Station Connectivity/SLD during the event : Enclosed

Analysis of the event : 400 kV Bus-3 protection operated tripping all the feeders and ICT's connected to Bus-3 and send DT to other end. 4" ips connected in bay 424 (PGCIL 2) disconnected.

Protection / Operational Issues observed : NIL

Restoration Details :
400kv Kpk-STPP-2 feeder charged on 09.06.2026 at 21:21Hrs.

400kv Kpk-Vemagir chagred on 10.06.2026 at 06:41 Hrs

315MVA ICT3 chagred on 10.06.2026 at 13:25Hrs

400kv Kpk-Gajuwaka-1 feeder charged on 10.06.2026 at 20:00Hrs

400kv Kpk-Gajuwaka-2 feeder charged on 10.06.2026 at 20:01Hrs

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

Remedial Measures Taken (सुधारात्मक सुझाव) : The O&M wing Kalapaka Replaced damaged Rphase HCB isoaltor rigid clamp and flexible

clamp in PGCIL-1 bay and Special patrolling conducted and found that R phase conductor snapped in between loc 2 to 3 and rectification work were completed. And Replaced damaged B-phase Bus -2 isolator male contact, isolator stacks, Pipe in 315MVA ICT-3 bay. And Replaced damaged R Phase C isolator L clamp and U clamp in PGCI 2 bay.

Relay/PLCC Operation Details :

Control Panel Anunciation :

Main I Relay Indications :

Main II Relay Indications :

Other Relay Indications : R Trip, Cz trip , Bus 3 trip (Bus Bar Panel) 96 trip relay operated

PLCC Counter Increment I/T : Direct trip send Ch1 &2 were sent to Simhadri-2, Vemagiri, PGCIL-2

PLCC Counter Increment D/T :

Fault Current Value (kAmp) : None

LA Counter :

Remarks :

Attachments : 1. [SLD/Connectivity Diagram](#)