

Detailed Report

Date of Submission : 20-04-2026 16:16

DICHPALLY - 400KV tripped at **04-04-2026 22:26** and restored at **05-04-2026 18:26**

Summary of Event (घटना का सारांश) :

On 04-04-2026 at 22:26Hrs, Grid Incident occurred at 400/220kV Dichpally Substation due to severe gale and storm conditions resulting in multiple 400kV& 220kV element trippings along with equipment damages and the details are as follows.

i) 400kV Busbar Zone-2 protection operated and tripped all the breakers connected to Bus-2 due to damage of R-Phase Bus Post Insulator (BPI) connecting the Nirmal-2 TIE CB(417) to Bus-2.

ii) 500MVA ICT-IV tripped on Differential and HV overcurrent highest protection due to damage of ICT-IV HV R-Phase Bus Post Insulator (BPI).

iii) 400kV Dichpally – Nirmal -1 feeder tripped on B-phase to ground fault due to damage of Y & B phase line Isolator.

During the tripping incident the following discrepancies observed

1) No GPS Time Synchronization.

2) On 400kV Dichpally - Nirmal-1 feeder, even though there was Y-phase to ground fault Main-2 Siemens 7SA522 relay has given 3-phase tripping.

Time and Date of the event (घटना का समय और दिनांक) :

04-04-2026 22:26

Name of the Substation/Generating Station/Pooling Station :

DICHPALLY - 400KV

**affected (Along with
Voltage level) :**

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

**Location/Control Area
(स्थान/नियंत्रण क्षेत्र) :** TELANGANA

**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. 400KV-DICHPALLY-NIRMAL-1 2. 400KV-DICHPALLY-NIRMAL-2 3. 400KV-DICHPALLY-NIZAMABAD-1 4. 400KV-DICHPALLY-NIZAMABAD-2 5. 400KV-DICHPALLY-RAMAGUNDAM-1	1. 400KV/220KV DICHPALLY-ICT-1 2. 400KV/220KV DICHPALLY-ICT-2 3. 400KV/220KV DICHPALLY-ICT-3 4. 400KV/220KV DICHPALLY-ICT-4		

**Station Connectivity / SLD
during antecedent :** enclosed

Weather Conditions : Thunders, Windy

**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)
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. 400KV/220KV DICHPALLY-ICT-4
2. 400KV-DICHPALLY-NIRMAL-1
3. DICHPALLY - 400KV - Bus 2

Station Connectivity/SLD during the event : Enclosed

Analysis of the event :
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Protection / Operational Issues observed :

Restoration Details :

Sl. No.	Voltage Level (kV)	Name of the Element	Date of Restoration (DD-MM-YYYY)	Time of Restoration (Hrs)
1	400kV	Bus-2	05-04-2026	18:26
2	400kV	500MVA ICT-4	05-04-2026	18:26
3	400kV	Dichpally – Nirmal - 1	06-04-2026	19:28

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

Remedial Measures Taken (सुधारात्मक सुझाव) : a) Restored the Bus - 2 and ICT - 4 by replacing the damaged Bus Post Insulator (BPIs) with spare BPIs at 18:26Hrs on 05-04-2026.

- b) Replaced the damaged Line Isolator with spare and charged the 400kV Dichpally – Nirmal – 1 feeder.
- c) New GPS server was drawn from the stores for replacement of the damaged GPS server and commissioning of the same will be done in 3-4 weeks.
- d) Non operation of Auto recloser on 400kV Dichpally – Nirmal – 1feeder will be studied.

Relay/PLCC Operation Details :

Control Panel Anunciation : Busbar protection Operated

Main I Relay Indications : 87BB Zone-2 operated

Main II Relay Indications : NIL

Other Relay Indications :

PLCC Counter Increment I/T :

PLCC Counter Increment D/T :

Fault Current Value (kAmp) : 26.0

LA Counter :

Remarks :

Attachments :

1. [SLD/Connectivity Diagram](#)
2. [Others](#)
3. [Others](#)
4. [Others](#)