

Detailed Report

Date of Submission : 21-03-2026 08:12

DONI - 400KV tripped at **20-03-2026 08:03** and restored at **20-03-2026 09:38**

Summary of Event (घटना का सारांश) :

On 20.03.2026 at 08:01:46 hrs during bus reactor CB operation (414-52), B-phase limb flashover occurred. This created a fault seen by busbar protection and Busbar protection operated and issued trip. So 400kV Bus-2 completely dead. Shift Engineer manually tripped the Tie breaker (404-52) of ICT-1 as a precautionary measure to prevent possible fault feeding and to safeguard equipment's under abnormal system conditions.

Time and Date of the event : 20-03-2026 08:03
(घटना का समय और दिनांक)

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

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

Location/Control Area : KARNATAKA
(स्थान/नियंत्रण क्षेत्र)

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-DONI-GUTTUR-1 2. 400KV-DONI-MUNIRABAD-1 3. 400KV/220KV DONI-ICT-1 4. 400KV/220KV DONI-ICT-2	1. 400KV-DONI-GUTTUR-1 2. 400KV-DONI-MUNIRABAD-1 3. 400KV/220KV DONI-ICT-1 4. 400KV/220KV DONI-ICT-2		

Station Connectivity / SLD :
during antecedent

Weather Conditions : Normal

Elements under outage :
prior to the event

Other Information :
(Antecedent Cnditions)

Renewable Energy Trip : False

Details of SPS Operation : False
(if any):

Reason of tripping : Protection coordination

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
CB	Siemens

List of elements tripped during the event :
1. DONI - 400KV - Bus 2
2. 400KV/220KV DONI-ICT-1

Station Connectivity/SLD during the event :

Analysis of the event : On 20.03.2026 at 08:01:46 hrs during bus reactor CB operation (414-52), B-phase limb flashover occurred. This created a fault seen by busbar protection and Busbar protection operated and issued trip. So 400kV Bus-2 completely dead. Shift Engineer manually tripped the Tie breaker (404-52) of ICT-1 as a precautionary measure to prevent possible fault feeding and to safeguard equipments under abnormal system condition.

Protection / Operational Issues observed :

Restoration Details : Restored after isolating faulty section of Bus-2

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

Remedial Measures Taken (सुधारात्मक सुझाव) : Isolated the faulty section of Bus Reactor bay and charged the 400kV bus-2 and ICT-1. Need to replace the faulty breaker.

Relay/PLCC Operation :
Details

Control Panel Anunciation :

Main I Relay Indications :

Main II Relay Indications :

Other Relay Indications : Master control Unit-1 & 2

PLCC Counter Increment I/T :

PLCC Counter Increment D/T :

Fault Current Value (kAmp) : None

LA Counter :

Remarks :

Attachments : 1. [Others](#)