

Detailed Report

Date of Submission : 09-06-2026 13:04

HIRIYUR_OSTRO - 220KV tripped at **08-06-2026 07:49** and restored at **08-06-2026 20:29**

Summary of Event (घटना का सारांश) : EHV Line-1. The line tripped at 07:49:37 due to EFR on R phase to ground with a fault current of 702 A, at a distance of 65.9 km from Ostro Kannada PSS to Hiriya Power Grid. DT was received at the time of tripping. Heavy rain and lightning were observed in the area during the incident.

Line patrolling was conducted, and suspension insulator failure was observed at Tower No. 67. A new insulator was replaced. Post-fault patrolling and inspection of the transmission line and associated PSS/protection system have been completed, and no abnormalities were observed.

Test charge was taken, and the line stood OK at 20:29:24 on 08/06/2026.

Time and Date of the event (घटना का समय और दिनांक) : 08-06-2026 07:49

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : HIRIYUR_OSTRO - 220KV

Event Category (श्रेणी के साथ इवेंट प्रकार) : GD - 1

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

Configuration of Bus (HV/LV) . Along with details of Bus split Operation (if any) :

Bus Configuration Type :

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements

Station Connectivity / SLD :
during antecedent

Weather Conditions : Rainy

Elements under outage prior to the event : 1. HIRIYUR_OSTRO - 220KV

Other Information (Antecedent Cnditions) : EHV Line-1. The line tripped at 07:49:37 due to EFR on R phase to ground with a fault current of 702 A, at a distance of 65.9 km from Ostro Kannada PSS to Hiriur Power Grid. DT was received at the time of tripping. Heavy rain and lightning were observed in the area during the incident.

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Renewable Energy Trip : False

Details of SPS Operation (if any): : False

Reason of tripping : Fault Tripping

Type of Fault : SLG

phases inv :

Auto Reclosure Operation : Yes

Fault Clearing Time (ms) : 500.0

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. 220KV-HIRIYUR_OSTRO-HIRIYUR-1
2. HIRIYUR_OSTRO - 220KV

Station Connectivity/SLD during the event :

Analysis of the event :
EHV Line-1. The line tripped at 07:49:37 due to EFR on R phase to ground with a fault current of 702 A, at a distance of 65.9 km from Ostro Kannada PSS to Hiriya Power Grid. DT was received at the time of tripping. Heavy rain and lightning were observed in the area during the incident.

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Protection / Operational Issues observed :

Restoration Details : Line patrolling was conducted, and suspension insulator failure was observed at Tower No. 67. A new insulator was replaced. Post-fault patrolling and inspection of the transmission line and associated PSS/protection system have been completed, and no abnormalities were observed.

Test charge was taken, and the line stood OK at 20:29:24 on 08/06/2026.

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

Remedial Measures Taken (सुधारात्मक सुझाव) : Line patrolling carried out for entire rest of line and no further observation found.

Relay/PLCC Operation Details :

Control Panel Anunciation : 86A OPTD,86B OPTD,

Main I Relay Indications : Gen trip, DT recived

Main II Relay Indications : DIFF PROT OPT,R Phase fault, DT receive

Other Relay Indications : NA

PLCC Counter Increment I/T : TX 14

PLCC Counter Increment D/T : RX 31

Fault Current Value (kAmp) : 0.703

LA Counter : R-05,Y-10,B-11

Remarks :

Attachments :