Detailed Report

Date of Submission : 02-10-2026 07:17

HIRIYUR_OSTRO - 220KV tripped at ***01-10-2026 08:39*** and restored at ***01-10-2026 15:54***

Summary of Event (घटना का सारांश)	:	EHV Line-1. The line tripped at 08:39:35 due to EFR on Y phase to ground with a fault current of 577 A, at a distance of 32.97 km from Ostro Kannada PSS to Hiriyur Power Grid. DT was received at the time of tripping. Drizzling rain and lightning were observed in the area during the incident. Line patrolling was conducted, and Tension insulator failure was observed at Tower No. 222. 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 15:54:09 on 01/10/2026. **Fault Details:** Y-Phase to Ground, **Fault Value** **M1**: IA= 558.98A IB= 239.123A IC= 453.98A IN= 1183.99A Distance:-13.2Km **M2**: IA= 677.292A IB=223.059A IC=462.337A IN= 1189.43A Distance:-13Km Fault Distance: 13 km from Local end(Ostro kannada PSS)
Time and Date of the event (घटना का समय और दिनांक)	:	01-10-2026 08:39
Name of the Substation/Generating	:	HIRIYUR_OSTRO - 220KV

Station/Pooling Station affected (Along with Voltage level) :

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 : Cloudy

Elements under outage prior to the event :

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

Other Information (Antecedent Cnditions) :

EHV Line-1. The line tripped at 08:39:35 due to EFR on Y phase to ground with a fault current of 577 A, at a distance of 32.97 km from Ostro Kannada PSS to Hiriyur Power Grid. DT was received at the time of tripping. Drizzling rain and lightning were observed in the area during the incident.

Line patrolling was conducted, and Tension insulator failure was observed at Tower No. 222. 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 15:54:09 on 01/10/2026.

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	100 MW

Duration of interruption (रुकावट की अवधि) :

Details of Equipment Failure (if any during the event): :

Equipment Type	**Equipment Make**

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 08:39:35 due to EFR on Y phase to ground with a fault current of 577 A, at a distance of 32.97 km from Ostro Kannada PSS to Hiriyur Power Grid. DT was received at the time of tripping. Drizzling rain and lightning were observed in the area during the incident.

Line patrolling was conducted, and Tension insulator failure was observed at Tower No. 222. 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 15:54:09 on 01/10/2026.
Protection / Operational Issues observed	:	
Restoration Details	:	Line patrolling was conducted, and Tension insulator failure was observed at Tower No. 222. 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 15:54:09 on 01/10/2026
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 16
PLCC Counter Increment D/T	:	RX 31
Fault Current Value (kAmp)	:	1.183
LA Counter	:	R-05,Y-10,B-12
Remarks	:	
Attachments	:	