

Detailed Report

Date of Submission : 19-03-2026 20:00

Renew_Surya_Koppal - 220KV tripped at 18-03-2026 22:28 and
restored at 19-03-2026 00:03

Summary of Event (घटना का सारांश)	: Renew_Surya_Koppal - 220KV - RENEW POWER PVT LTD) 220kV line 204 Bay Tripped on B-Phase Ground distance protection during Heavy rain and lightning nearby site areas. Main 1: Fault current IL1: 0.55 kA; M1 Fault distance: 26.8 km Main 2: IA: 725.0 Amps IB: 202.4 Amps IC: 252.4 Amps IN: 646.6 Amps M2 Fault distance: 50.55 km
Time and Date of the event (घटना का समय और दिनांक)	: 18-03-2026 22:28
Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	: Renew_Surya_Koppal - 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 : Double Bus with Bus coupler

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. Renew_Surya_Koppal - 220KV 2. 220KV/33KV Renew_Surya_Koppal-ICT-1 3. 220KV/33KV Renew_Surya_Koppal-ICT-2			

Station Connectivity / SLD during antecedent : Station Under Normal Condition prior to the occurrence of Grid Disturbance Event.

Weather Conditions : Thunders

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

Other Information (Antecedent Conditions) : **Renew_Surya_Koppal - 220KV - RENEW POWER PVT LTD)** 220kV line 204 Bay Tripped on B-Phase Ground distance protection.

Main 1: Fault current IL1: 0.55 kA; M1 Fault distance: 26.8 km

Main 2:

IA: 725.0 Amps

IB: 202.4 Amps

IC: 252.4 Amps

IN: 646.6 Amps

M2 Fault distance: 50.55 km

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) : 39.0

Load and Generation Loss (लोड और जेनरेशन हानि) :

Total Generation Loss (MW)	Total Load Loss(MW)
301.45 MW	185 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-KOPPAL-Renew_Surya_Koppal-1

Station Connectivity/SLD during the event : Station was under Normal Condition prior to the occurrence of Grid Disturbance Event.

Analysis of the event : Renew_Surya_Koppal - 220KV - RENEW POWER PVT LTD) 220kV line 204 Bay Tripped on B-Phase Ground distance protection during Heavy rain and lightning nearby site areas.

Main 1: Fault current IL1: 0.55 kA; M1
Fault distance: 26.8 km

Main 2:

IA: 725.0 Amps

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IC: 252.4 Amps

IN: 646.6 Amps

M2 Fault distance: 50.55 km

Protection / Operational Issues observed : Nil

Restoration Details : At the time of tripping, heavy rain and lightning were observed in the area. Post-fault patrolling and inspection of the transmission line and associated PSS / protection system have been completed, and no abnormalities were observed.

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

Remedial Measures Taken (सुधारात्मक सुझाव) : At the time of tripping, heavy rain and lightning were observed in the area. Post-fault patrolling and inspection of the transmission line and associated PSS / protection system have been completed, and no abnormalities were observed.

Relay/PLCC Operation Details :

Control Panel Anunciation : Master 86 trip, Distance protection operated, line Differential operated.

Main I Relay Indications : R-Phase to Ground distance protection operated.

Main II Relay Indications : R-Phase to Ground distance protection operated.

Other Relay Indications : Nil

PLCC Counter Increment I/T : 1

PLCC Counter Increment D/T : 0

Fault Current Value (kAmp) : 0.55

LA Counter : R-Phase: 1count increased.

Remarks : Nil

Attachments : 1. [Others](#)
2. [Others](#)
3. [Others](#)