Detailed Report

Date of Submission : 17-09-2026 16:33

KADRA - 220KV tripped at ***15-09-2026 11:13*** and restored at ***15-09-2026 12:21***

Summary of Event (घटना का सारांश)	:	Bus Dead Occurred at Kadra PH due to tripping of Kaiga Line.
Time and Date of the event (घटना का समय और दिनांक)	:	15-09-2026 11:13
Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	:	KADRA - 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 : Single Main and Transfer Bus

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 220KV-KADRA-KARWAR-1 2. 220KV-KADRA-KARWAR-2 3. 220KV-KAIGA-KADRA-1			

Station Connectivity / SLD during antecedent	:	
Weather Conditions	:	Normal
Elements under outage prior to the event	:	1. 220KV-KADRA-KODASALLY-1
Other Information (Antecedent Cnditions)	:	Tripped at Kaiga End only on Zone-1 Distance Protection.
Renewable Energy Trip	:	False
Details of SPS Operation (if any):	:	False
Reason of tripping	:	Others
Other Reason	:	Tripped at Kaiga End only on Zone-1 Distance Protection. Becuase of no other source at Kadra, Kadra Bus dead occured. At Kadra End all the connected line CBs were in intact.
Load and Generation Loss (लोड और जेनरेशन हानि)	:	

Total Generation Loss (MW)	**Total Load Loss(MW)**
0 MW	49 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.

Station Connectivity/SLD during the event	:	
Analysis of the event	:	On 15.09.2026 @ 11:13Hrs, 220KV Kadra-Kaiga Line tripped at Kaiga end on Zone-1 Distance protection. Due to no source of 220Kv Bus dead condition occurred at Kadra station and at Kadra end 220KV Kaiga Line, Karwar-1 and Karwar-2 Lines CB were in intact condition. Trip details from Kaiga End: B-N Zone-1 fault at 9.262 KM with fault Current-3.27kA.
Protection / Operational Issues observed	:	
Restoration Details	:	
DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)	:	False
Remedial Measures Taken (सुधारात्मक सुझाव)	:	At 11:13 AM, immediately after the bus dead condition, the DG started and the Plant Auxiliary Supply was restored in Auto Mode. All 220 kV breakers connected to the bus were hand-tripped. As no source was available at Kadra PH, to ensure the healthiness of 220KV Kadra-Kaiga Line, the 220 kV bus was first charged through Dead Bus Charging from Unit-1 with the concurrence of LDC and SRLDC. Subsequently, @12:00Hrs the 220 kV Kaiga Line was test-charged from the Kadra end to check the healthiness of the line & line stood OK. At 12:14 Hrs the Kaiga Line CB was opened after completion of the test charging and Unit-1 Normalised. Consequently, the PGCIL patrolling team give the clearance to test

charging of 220KV Kadra-Kodasalli Line. Hence at 12:16 PM, the Kodasalli Line was test-charged from the Kodasalli end and was found healthy.

At 12:21 PM, the Kadra–Kodasalli Line CB was closed at the Kadra end, and the 220 kV Kadra bus was restored.

At 12:24 PM, the 220 kV Kadra–Karwar-1 and Kadra–Karwar-2 Line CBs were closed at both ends, and the 220 kV Karwar Bus was restored.

At 12:25 PM, the 220 kV Kadra–Kaiga Line CB was closed at both ends, and the line was charged.

Relay/PLCC Operation Details :

Control Panel Anunciation	:	NA
Main I Relay Indications	:	Carrier Recieved
Main II Relay Indications	:	Carrier Recieved
Other Relay Indications	:	NA
PLCC Counter Increment I/T	:	Yes
PLCC Counter Increment D/T	:	NA
Fault Current Value (kAmp)	:	None
LA Counter	:	NA
Remarks	:	NA

Attachments :