Detailed Report

Date of Submission : 22-10-2026 12:09

DONKARAYI - 220KV tripped at ***02-10-2026 12:58*** and restored at ***02-10-2026 13:25***

Summary of Event (घटना का सारांश)	:	On 02.10.2026 @ 12:58 Hrs, at Donkarayi Canal Power House complete Bus Outage occured due to Tripping of 220 KV Upper Sileru-Pendurthi Feeder and Lower Sileru-Bommuru Feeder (Already in Tripped condition from 12:51 Hrs)
Time and Date of the event (घटना का समय और दिनांक)	:	02-10-2026 12:58
Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	:	DONKARAYI - 220KV
Event Category (श्रेणी के साथ इवेंट प्रकार)	:	GD - 1
Location/Control Area (स्थान/नियंत्रण क्षेत्र)	:	ANDHRA PRADESH
Configuration of Bus (HV/LV) . Along with details of Bus split Operation (if any)	:	

Bus Configuration Type : Single Bus

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	:	During antecedent condition, 220 KV Lower Sileru-Bommuru Feeder is in Tripped Condition. DCPH Unit is in service with Load

		19 MW with available 220 KV Upper Sileru-Donkarayi Feeder. At 12: 58 Hrs, Upper Sileru-Pendurthi Feeder Tripped. Hence, Donkarayi unit was tripped on load Rejection (as both LSPH-Bommuru and USPH-Pendurthi Feeders are NOT avaialble).
Weather Conditions	:	Normal
Elements under outage prior to the event	:	1. 220KV-DONKARAYI-LOWER_SILERU-1
Other Information (Antecedent Cnditions)	:	Donkarayi unit was tripped on load Rejection (as both LSPH-Bommuru and USPH-Pendurthi Feeders are NOT avaialble).
Renewable Energy Trip	:	False
Details of SPS Operation (if any):	:	False
Reason of tripping	:	Others
Other Reason	:	Both side 220 KV Feeders (DNK-LS and DNK-US) are Not available and Bus Dead condition
Load and Generation Loss (लोड और जेनरेशन हानि)	:	

Total Generation Loss (MW)	**Total Load Loss(MW)**
19 MW	19 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. DONKARAYI - UNIT 1

Station Connectivity/SLD during the event	:	
Analysis of the event	:	At 12:51 Lower Sileru-Bommuru Feeder Tripped at Bommuru End. Hence, Only One 220 KV Feeder is available (i.e Donkarayi - Upper Sileru Feeder). At 12: 58 Hrs, Pendurthy-Upper Sileru Feeder Tripped at Pendurthy end. Hence, Both feeders are NOT AVAILABLE & Bus Dead condition. Unit Tripped due to load Rejection.
Protection / Operational Issues observed	:	Main-I & II Unit Relays, : 86 A, B, C Operated. Over Voltage and Over Current
Restoration Details	:	220 KV Lower Sileru-Donkarayi Feeder was charged @ 13:25 Hrs from Lower Sileru end and there by restoring the 220 KV Donkarayi Bus
DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)	:	False
Remedial Measures Taken (सुधारात्मक सुझाव)	:	At 13:26 Hrs Donkarayi-Lower Sileru 220 KV Feeder Charged. Donkarayi unit is available.
Relay/PLCC Operation Details	:	
Control Panel Anunciation	:	Over Voltage
Main I Relay Indications	:	Under/Over Voltage
Main II Relay Indications	:	Under/Over Voltage
Other Relay Indications	:	86B & 86A Operated
PLCC Counter Increment I/T	:	
PLCC Counter Increment D/T	:	
Fault Current Value (kAmp)	:	None
LA Counter	:	
Remarks	:	Due to 220 KV Bus dead at Donkarayi and hence Unit tripped on Load Rejection

Attachments :