Detailed Report

Date of Submission : 09-10-2026 18:01

NAGARJUNASAGAR_AP - 220KV tripped at ***18-09-2026 21:48*** and
restored at ***19-09-2026 03:56***

Summary of Event (घटना का सारांश) : At 220kVSwS, Tallapalli at 21:48Hrs on 18-9-26 busbar LBB Zone-1 operated at 220kVSS,Tallapalli and consequently zone-1 connected feeders and bus coupler-1 breakers were only tripped at 220kVSS,Tallapalli

Time and Date of the event (घटना का समय और दिनांक) : 18-09-2026 21:48

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

Event Category (श्रेणी के साथ इवेंट प्रकार) : GI-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 : Double Bus with Double Breaker

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. NAGARJUNASAGAR_AP - 220KV	1. 220KV-NAGARJUNASAGAR_AP-NAGARJUNASAGAR_TS-2		1. 220KV-NAGARJUNASAGAR_AP-INAPARAJUPALLI-2 2. 220KV-NAGARJUNASAGAR_AP-RENTACHINTHALA-1 3. 220KV-NAGARJUNASAGAR_AP-NAGARJUNASAGAR_TS-3

Station Connectivity / SLD during antecedent : Bus1 connected feeders: Nagarjuna Sagar-1

Bus2 connected feeders: , Nagarjuna Sagar-2,

Bus3 connected feeders: no feeders (under OUTAGE)

Bus4 connected feeders: Inaparajupalli-2, Rentachintala-1,Nagarjuna Sagar-3 and ICT-3

Weather Conditions : Rainy

Elements under outage prior to the event :

1. 220KV-SRISAILAM_RIGHT_BANK-NAGARJUNASAGAR_AP-1
2. 220KV-SRISAILAM_RIGHT_BANK-NAGARJUNASAGAR_AP-2
3. 220KV-NAGARJUNASAGAR_AP-INAPARAJUPALLI-1
4. 220KV-NAGARJUNASAGAR_AP-CHALAKURTHY-1
5. 220KV-NAGARJUNASAGAR_AP-RENTACHINTHALA-2
6.

Other Information (Antecedent Cnditions) : POWER GRID ICT-1: OUTAGE

POWER GRID ICT-2: OUTAGE

POWER GRID ICT-3: BUS-4

Renewable Energy Trip : False

Details of SPS Operation (if any): : False

Reason of tripping : Fault Tripping

Type of Fault : LLL

phases inv :

Auto Reclosure Operation :

Fault Clearing Time (ms) : None

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**

List of elements tripped during the event : 1. 220KV-NAGARJUNASAGAR_AP-INAPARAJUPALLI-2
2. NAGARJUNASAGAR_AP - 220KV

Station Connectivity/SLD during the event :

Analysis of the event : ICT-1 received "External CB fail signal" from power grid end and consequently busbar LBB Zone-1 operated at 220kVSS,Tallapalli and zone-1 (NagarjunaSagar-1)connected feeder and bus coupler breaker -1 were only tripped and remote end feeders were tripped on DT receive (NagarjunaSagar-1). At that time ICT-3 was on bus -4 ,trip pulse not given by Bus bar & Trip pulse given by power grid .Busbar zone-2 is not operated and busbar zone-2 connected feeder were in service. 220KY Inaparajupall – 2 tripped on Z4 REV DIST PROTECTION .

Protection / Operational Issues observed :

Restoration Details :

S No	Transmission/Generation element name	Trip Date	Trip Time(Hrs)	Restoration Date	Restoration time (Hrs)	
1	220KY Inaparajupall - 2	18-9-26	21:48	19-9-26	00.36	Z4 PR OR
2	ICT-3	18-9-26	21:48	19-9-26	00:40	Tri giv po BE
3	NagarjunaSagar-1	18-9-26	21:48	19-9-26	4:16	LB opt
4	Bus coupler-1	18-9-26	21:48	19-9-26	4:20	LB opt

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

Remedial Measures Taken (सुधारात्मक सुझाव) :

Relay/PLCC Operation Details :

Control Panel Anunciation : Bus bar protection panel: Trip, LBB Zone-I optd, 50BF Trip.

Main I Relay Indications :

Main II Relay Indications	:	
Other Relay Indications	:	
PLCC Counter Increment I/T	:	
PLCC Counter Increment D/T	:	
Fault Current Value (kAmp)	:	None
LA Counter	:	
Remarks	:	
Attachments	:	1. SLD/Connectivity Diagram