

Detailed Report

Date of Submission : 29-05-2026 19:23

GARIVIDI - 220KV tripped at **23-05-2026 11:57** and restored at **23-05-2026 12:10**

Summary of Event (घटना का सारांश)	:	220KV BOBBILI-MARADAM-1 Feeder got tripped @11:48 hrs on Distance Protection, B-Ph, Autoreclosure operated and tripped on SOTF. At the time of above tripping, 220KV BOBBILI- MARADAM-2 Feeder was under Breakdown rectification works (from 22.05.2026@18:31hrs) and 220kV Garividi-Bobbili GC-1 was under hand tripped (from 22.05.2026) at Garividi SS End to limit Load on 220kV Bobbili- Maradam-1 Line, as BobbiliGC to garividi is always in export power mode. Further 220kV Bobbili GC SS Loads feeded from Garividi SS and also 220kV Tekkali SS Loads also feeded from Garividi SS, at 11:56Hrs 220kV Garividi-Maradam-2 feeder tripped at both ends on distance protection, B-Ph (due to overloading and weather condition was also severe heat waves and causes sag) and immediately at 11:57 Hrs 220kV Garividi-Maradam-1 feeder also tripped and total outage occurred to 220kV Garividi SS.
Time and Date of the event (घटना का समय और दिनांक)	:	23-05-2026 11:57
Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :	:	GARIVIDI - 220KV
Event Category (श्रेणी के साथ इवेंट प्रकार)	:	GD - 1

Location/Control Area : ANDHRA PRADESH
(स्थान/नियंत्रण क्षेत्र)

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
1. 220KV-GARIVIDI-BOBBILI-1 2. 220KV-GARIVIDI-BOBBILI-2 3. 220KV-GARIVIDI-MARADAM-1 4. 220KV-GARIVIDI-MARADAM-2 5. 220KV-GARIVIDI-TEKKALI-1 6. 220KV-GARIVIDI-TEKKALI-2			

Station Connectivity / SLD during antecedent : Connected to 400/220 kV Maradam SS via 220 kV Garividi-Maradam-I&II and 220 kV Bobbili GC SS via 220 kV Garividi-Bobbili GC-II & 220kV Bobbili GC-Garividi-1 under hand tripped at Garividi SS End to limit Load on 220kV Bobbili- Maradam-1 Line.

Weather Conditions : Normal

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

Other Information (Antecedent Cnditions) : 220 kV Maradam-Bobbili-II is under breakdown.
220 kV Maradam-Bobbili-I tripped at 11:48 hrs.

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 : No

Fault Clearing Time (ms) : 80.0

Load and Generation Loss (लोड और जेनरेशन हानि) :

Total Generation Loss (MW)	Total Load Loss(MW)
0 MW	226 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-GARIVIDI-MARADAM-1
2. 220KV-GARIVIDI-MARADAM-2

Station Connectivity/SLD during the event : Connected to 400 kV Maradam SS via 220 kV Garividi-Maradam-I&II and 220 kV Bobbili GC SS via 220 kV Garividi-Bobbili GC-II.
220kV Garividi-Maradam-1&2 Tripped on Distance protection, B-Ph.

Analysis of the event	:	220KV BOBBILI-MARADAM-1 Feeder got tripped @11:48 hrs on Distance Protection, B-Ph, Autoreclosure operated and tripped on SOTF. At the time of above tripping, 220KV BOBBILI- MARADAM-2 Feeder was under Breakdown rectification works (from 22.05.2026@18:31hrs) and 220kV Garividi-Bobbili GC-1 was under hand tripped (from 22.05.2026) at Garividi SS End to limit Load on 220kV Bobbili- Maradam-1 Line, as BobbiliGC to garividi is always in export power mode. Further 220kV Bobbili GC SS Loads feeded from Garividi SS and also 220kV Tekkali SS Loads also feeded from Garividi SS, at 11:56Hrs 220kV Garividi-Maradam-2 feeder tripped at both ends on distance protection, B-Ph (due to overloading and weather condition was also severe heat waves and causes sag) and immediately at 11:57 Hrs 220kV Garividi-Maradam-1 feeder also tripped and total outage occurred to 220kV Garividi SS.
Protection / Operational Issues observed	:	NIL
Restoration Details	:	Restored 220kV Supply to Garividi SS through 220kV Garividi-Maradam-1 feeder at 12:10hrs.
DR Time synchronization issues observed (सुरक्षा/प्रचालन समस्या)	:	False
Remedial Measures Taken (सुधारात्मक सुझाव)	:	Protection operated correctly and restored incoming supply to 220 kV Garividi SS at 12:10 hrs.
Relay/PLCC Operation Details	:	
Control Panel Anunciation	:	Distance Protection Operated
Main I Relay Indications	:	Distance, Z1, BN

Main II Relay Indications	:	Distance, Z1, BN,
Other Relay Indications	:	
PLCC Counter Increment I/T	:	
PLCC Counter Increment D/T	:	
Fault Current Value (kAmp)	:	3.024
LA Counter	:	
Remarks	:	
Attachments	:	1. SLD/Connectivity Diagram