

Detailed Report

Date of Submission : 20-03-2026 18:36

YTPS - 400KV tripped at **17-03-2026 21:52** and restored at **17-03-2026 22:26**

Summary of Event (घटना का सारांश) :

- YTPS-BPS-1 line was in tripped on fault in R-N at a distance 11.13 KM from YTPS end at 20:27:34 hrs. SLDC concurrence was awaited for test charging of the line due thunder storm & windy weather condition.
- due to tripping of YTPS-BPS-1 line, YTPS-BPS-2 line was carrying appx. 830 MW load, when Zone-01 Phase to Phase fault occurred between R and Y phase of YTPS-BPS-2 line at the location of 2.2 KM from YTPS end at 21:52:11 hrs with fault current magnitude of Ia-7.249kA and Ib-6.112kA and faulted phases voltage being V an – 118kV and Vbn – 116.5kV were recorded .
- YTPS-BPS-2 line Main (413-52) and Tie breakers (414-52) opened immediately at YTPS end and DT was sent to remote end.
- Generator-1 & Generator-2 tripped on low forward power protection.
- 400KV YTPS Station black out happened consequent to blackout at 400KV KALABURAGI end.

Time and Date of the event (घटना का समय और दिनांक) : 17-03-2026 21:52

Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) : YTPS - 400KV

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 : One and half breaker

Bus Coupler Status : NA

Bus 1 Connected Elements	Bus 2 Connected Elements	Bus 3 Connected Elements	Bus 4 Connected Elements
1. 400KV-KALABURAGI-YTPS-1 2. 400KV-KALABURAGI-YTPS-2 3. 400KV-BPS-YTPS-1 4. 400KV-BPS-YTPS-2	1. 420KV/27KV YTPS-GT-1 2. 400KV/11.5KV YTPS-ST-1 3. 400KV/11.5KV YTPS-ST-2 4. 420KV/27KV YTPS-GT-2		

Station Connectivity / SLD during antecedent :

Weather Conditions : Thunders, Windy

Elements under outage prior to the event : 1. 400KV-BPS-YTPS-1

Other Information (Antecedent Cnditions) :

Renewable Energy Trip : False

Details of SPS Operation (if any): : False

Reason of tripping : Fault Tripping

Type of Fault : LL

phases inv : None, None

Auto Reclosure Operation : No

Fault Clearing Time (ms) : 79.98

Load and Generation Loss :
(लोड और जेनरेशन हानि)

Total Generation Loss (MW)	Total Load Loss(MW)
899 MW	0 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. 400KV-BPS-YTPS-2
2. 420KV/27KV YTPS-GT-1
3. 420KV/27KV YTPS-GT-2

Station Connectivity/SLD during the event :

Analysis of the event :

- YTPS-BPS-1 line was in tripped on fault in R-N at a distance 11.13 KM from YTPS end at 20:27:34 hrs. SLDC concurrence was awaited for test charging of the line due thunder storm & windy weather condition.
- due to tripping of YTPS-BPS-1 line, YTPS-BPS-2 line was carrying appx. 830 MW load, when Zone-01 Phase to Phase fault occurred between R and Y phase of YTPS-BPS-2 line at the location of 2.2 KM from YTPS end at 21:52:11 hrs with fault current magnitude of Ia-7.249kA and Ib-6.112kA and faulted phases voltage being V an – 118kV and Vbn – 116.5kV were recorded .

- YTPS-BPS-2 line Main (413-52) and Tie breakers (414-52) opened immediately at YTPS end and DT was sent to remote end.
- Generator-1 & Generator-2 tripped on low forward power protection.
- 400KV YTPS Station black out happened consequent to blackout at 400KV KALABURAGI end.

Protection / Operational Issues observed : The Power evacuation corridor at YTPS is very much strained in the event of tripping of either of 400KV YTPS-BPS line-1 OR YTPS-BPS line-2.

Restoration Details :

- YTPS-BPS line-1 was charged on 17.03.2026 at 22:26 hrs.
- YTPS-KALABURAGI line -1 was charged on 18.03.2026 at 00:33 hrs.
- YTPS Unit#2 was synchronised to grid on 18.03.2026 at 05:36 hrs.
- YTPS-KALABURAGI line -2 was charged on 18.03.2026 at 08:07 hrs.
- YTPS-BPS line-2 was charged on 19.03.2026 at 20:08 hrs.

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

Remedial Measures Taken (सुधारात्मक सुझाव) : R-Phase conductor snapping was observed between Tower No. 11 & 12 from YTPS station. The rectification work was carried out by KPTCL-TLM division on 19.03.2026 and line was restored on 19.03.2026 at 20:08 hrs.

Relay/PLCC Operation Details :

Control Panel Anunciation :

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 :