

# Detailed Report

Date of Submission : 15-04-2026 16:07

**SHAHABAD - 220KV** tripped at **17-03-2026 21:52** and restored at **18-03-2026 00:33**

## Summary of Event (घटना का सारांश)

: In the Prefault scenario, split bus operation was envisaged at **Bijapur, Shahapur and Sedam 220kV Substation**

Hence, 2x500MVA ICTs at Kalaburgi SS were operating radially with source from 400kV side through YTPS.

Both the units were in running condition at YTPS with total generation of 900MW.

**At 20.27 Hrs** : 400kV BPS-YTPS line-1 is tripped on R phase to ground fault AR operated , TOR due to persistent fault, fault current 4.2kA, 152 km, Due to heavy rain and thunder storms charging was delayed.

**At 21.52 Hrs:** 400kV BPS-YTPS line-2 is tripped on Line to Line (R-Y) fault. Zone-2 aided trip. During line inspection, at conductor is snapped near to YTPS(Tower location 11 &12)

YTPS units could not sustain after to tripping of both YTPS-BPS 1 &2 lines. Tripping of units at YTPS resulted in main supply failed to Kalaburgi 400kV SS and downstream 220kV substations.

## 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) :

: SHAHABAD - 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 : One and half breaker

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** :

**Weather Conditions** :

**Elements under outage prior to the event** :

**Other Information (Antecedent Cnditions)** :

**Renewable Energy Trip** : True

**Details of SPS Operation (if any):** : False

**Reason of tripping** : Fault Tripping

Type of Fault : SLG

phases inv : None, None

Auto Reclosure Operation : Yes

Fault Clearing Time (ms) : None

**Load and Generation Loss (लोड और जेनरेशन हानि)** :

Solar Generation Loss (MW)	Wind Generation Loss (MW)	Other Generation Loss (MW)	Total Generation Loss (MW)	Total Load Loss(MW)
0 MW	162 MW	0 MW	162 MW	232 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.

**Station Connectivity/SLD during the event** :

**Analysis of the event** : In the Prefault scenario, split bus operation was envisaged at Bijapur, Shahapur and Sedam 220kV Substations

Hence, 2x500MVA ICTs at Kalaburgi SS was operating radially with source from 400kV side through YTPS.

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YTPS units could not sustain after to tripping of both YTPS-BPS 1 &2 lines. Main supply

failed to Kalaburgi 400kV SS and downstream substations.

The Load and generation in the Kalaburgi downstream was as follows:

Sl.NO.	SS name	Load in MW	Wind Generation in MW
1	Bijapur	0	116
2	Aheri	2	0
3	Nimbarga	8	46
4	Halabarga	8	0
5	Humnabad	26	0
6	Shahabad	90	0
7	Kapanoor	46	0
8	Shahapur	42	6
9	Sedam	4	0
10	Santhpura	6	0
	<b>Total</b>	<b>232MW</b>	<b>162MW</b>

**Protection / Operational Issues observed** : NIL

**Restoration Details** : **On 18.03.2026**

00:33 - YTPS line -1 charged stood ok

00:55- 500MVA ICT 1 was restored

YTPS line-2 500MVA ICT 2 was kept open and restored on 18.03.2026.

On 18.03.2026 at 8.06 Hrs : YTPS line 2 was restored

8.23 Hrs 500MVA ICT-2 was restored

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

**Remedial Measures Taken (सुधारात्मक सुझाव)** : BPS-YTPS line-2 fault was attended

**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	:	Tripping of YTPS-BP line-1 and Line-2 and running units at YTPS resulted in Main supply failure to Kalaburgi 400kV SS and downstream 220kV substations.
<b>Attachments</b>	:	