

# Detailed Report

Date of Submission : 04-05-2026 13:00

**JSW\_Vilathikulam\_300MW - 230KV** tripped at **02-05-2026 18:39** and  
restored at **02-05-2026 20:31**

## Summary of Event (घटना का सारांश)

:

Dear Sir,

This is to inform you that the 230kV line  
breaker

(Bay No. 202) at our Arungulam Pooling

Substation, connected to PGCIL GIS Tuticorin

(Bay No. 210), tripped on 02.05.2026 at 18:39  
hrs.

And the differential protection R-phase  
indication

at the remote end and PSS end.

Fault current details recorded:

Local end (PSS): R – 1348A, Y – 632A, B – 542

& B-N: 1919A.

Remote end: R – 13962A, Y – 637A, B –

503A. B-N: 13199A.

1. RED670 (M1 - Relay): R phase &  
Differential

trip with flag.

2. P546 (M2 - Relay): R phase & Differential  
trip

with flag. Also inter trip operated.

3. REC670 (line bay): Glow indication with  
start.

**Time and Date of the event** : 02-05-2026 18:39  
(घटना का समय और दिनांक)

**Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level)** : JSW\_Vilathikulam\_300MW - 230KV

**Event Category (श्रेणी के साथ इवेंट प्रकार)** : GD - 1

**Location/Control Area (स्थान/नियंत्रण क्षेत्र)** : TAMILNADU

**Configuration of Bus (HV/LV) . Along with details of Bus split Operation (if any)** :

Bus Configuration Type : Double Bus with Bus coupler

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** : Thunders

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

**Other Information (Antecedent Cnditions)** : Dear Sir,

This is to inform you that the 230kV line breaker (Bay No. 202) at our Arungulam Pooling Substation, connected to PGCIL GIS Tuticorin (Bay No. 210), tripped on **02.05.2026 at 18:39 hrs.**

And the differential protection R-phase indication at the remote end and PSS end.

**Fault current details recorded:**

- **Local end (PSS):** R – 1348A, Y – 632A, B – 542 & B-N: 1919A.
- **Remote end:** R – 13962A, Y – 637A, B – 503A. B-N: 13199A.

1. RED670 (M1 - Relay): R phase & Differential trip with flag.

2. P546 (M2 - Relay): R phase & Differential trip with flag. Also inter trip operated.

3. REC670 (line bay): Glow indication with start.

**Renewable Energy Trip** : False

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

**Reason of tripping** : Fault Tripping

Type of Fault : SLG

phases inv : None

Auto Reclosure Operation : Yes

Fault Clearing Time (ms) : 1348.0

**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
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**List of elements tripped during the event** : 1.

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

**Analysis of the event** : Dear Sir,

This is to inform you that the 230kV line breaker (Bay No. 202) at our Arungulam Pooling Substation, connected to PGCIL GIS Tuticorin (Bay No. 210), tripped on **02.05.2026 at 18:39 hrs.**

And the differential protection R-phase indication at the remote end and PSS end.

**Fault current details recorded:**

- **Local end (PSS):** R – 1348A, Y – 632A, B – 542 & B-N: 1919A.
- **Remote end:** R – 13962A, Y – 637A, B – 503A. B-N: 13199A.

**Protection / Operational Issues observed** :

**Restoration Details** : We carried out detailed line patrolling and found **no abnormalities/observations**

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

**Remedial Measures Taken (सुधारात्मक सुझाव)** : we carried out detailed line patrolling and found **no abnormalities/observations**

**Relay/PLCC Operation Details** :

Control Panel Anunciation : 230kV C&R Panel – Distance Main Relay 1 (P546): R phase to ground trip, Differential protection trip R-phase trip. Fault location: 10.5 km Fault current: 1348A, 230kV C&R Panel – Distance Main Relay 2 (RED670): Differential protection trip R-phase trip.

Main I Relay Indications	:	Distance Main Relay 1 (P546): R phase to ground trip, Differential protection trip R-phase trip. Fault location: 10.5 km Fault current: 1348A
Main II Relay Indications	:	Distance Main Relay 2 (RED670): Differential protection trip R-phase trip.
Other Relay Indications	:	REC670: Start alarm.
PLCC Counter Increment I/T	:	
PLCC Counter Increment D/T	:	
Fault Current Value (kAmp)	:	1348.0
LA Counter	:	
Remarks	:	Nil.
<b>Attachments</b>	:	