# Detailed Report

**Date of Submission : 23-09-2026 17:14**

**SAEL2 - 220KV** tripped at ***16-09-2026 11:55*** and restored at ***16-09-2026 19:02***

| | | |
|---|---|---|
| **Summary of Event (घटना का सारांश)** | : | Tripped at both the ends due to the Line differential fault on B-Phase due to the insulator failure. |
| **Time and Date of the event (घटना का समय और दिनांक)** | : | 16-09-2026 11:55 |
| **Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :** | : | SAEL2 - 220KV |
| **Event Category (श्रेणी के साथ इवेंट प्रकार)** | : | GD - 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 :

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)** : Line differential fault.

**Renewable Energy Trip** : False

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

**Reason of tripping** : Others

Other Reason : Line differential fault.

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

| Total Generation Loss (MW) | Total Load Loss(MW) |
|---|---|
| 1500 MW | 150 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.

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

**Analysis of the event** : Following the tripping event, fault analysis indicated the fault location near Tower No. 1 IA/3. During subsequent inspection, failure Of the B-phase transmission line insulator was confirmed at the tower.

**Protection / Operational Issues observed** :

| | | |
|---|---|---|
| **Restoration Details** | : | |
| **DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)** | : | False |
| **Remedial Measures Taken (सुधारात्मक सुझाव)** | : | Replaced the faulty insulator and charged with the new one. |
| **Relay/PLCC Operation Details** | : | |
| Control Panel Anunciation | : | MAIN-OI DIFF OPTD, MAIN-02 DIFF OPTD ,86A OPTD, 86B OPTD |
| Main I Relay Indications | : | DIFF OPTD, B-PHASE OPTD |
| Main II Relay Indications | : | DIFF OPTD |
| Other Relay Indications | : | |
| PLCC Counter Increment I/T | : | |
| PLCC Counter Increment D/T | : | |
| Fault Current Value (kAmp) | : | None |
| LA Counter | : | |
| Remarks | : | |
| **Attachments** | : | |