# Detailed Report

**Date of Submission : 07-10-2026 17:35**

**UPPER_SILERU - 220KV** tripped at ***02-10-2026 12:58*** and restored at ***02-10-2026 13:18***

| | | |
|---|---|---|
| **Summary of Event (घटना का सारांश)** | : | On 02.10.2026 @ 12:58 hrs, at Upper Sileru Power House complete Bus outage occurred due to the tripping of 220 KV USPH - PNDT Feeder |
| **Time and Date of the event (घटना का समय और दिनांक)** | : | 02-10-2026 12:58 |
| **Name of the Substation/Generating Station/Pooling Station affected (Along with Voltage level) :** | : | UPPER_SILERU - 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 : Single Main and Transfer Bus

Bus Coupler Status : NA

| Bus 1 Connected Elements | Bus 2 Connected Elements | Bus 3 Connected Elements | Bus 4 Connected Elements |
|---|---|---|---|
| 1. 220KV-PENDURTHI-UPPER_SILERU-1<br>2. 220KV-DONKARAYI-UPPER_SILERU-1<br>3. UPPER_SILERU - 220KV | | | |

| | | |
|---|---|---|
| **Station Connectivity / SLD during antecedent** | : | During antecedent condition,220KV LSPH- Bommuru is in tripped condition, the 220KV USPH-DNK-LSPH Bus 1 Feeder was operating as a radial feeder for Lower Sileru Power House. 220 KV Pendurthy feeder is connected to the Main Bus, Units 1 and 4 are in service at Upper Sileru Power House. |
| **Weather Conditions** | : | Normal |
| **Elements under outage prior to the event** | : | 1. 220KV-UPPER_SILERU-BALIMELA-1 |
| **Other Information (Antecedent Cnditions)** | : | -- |
| **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) | : | 0.0 |
| **Load and Generation Loss (लोड और जेनरेशन हानि)** | : | |

| **Total Generation Loss (MW)** | **Total Load Loss(MW)** |
|---|---|
| 120 MW | 120 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. 220KV-PENDURTHI-UPPER_SILERU-1 |
| **Station Connectivity/SLD during the event** | : | |
| **Analysis of the event** | : | ➢ On 02.10.2026 at 12:58 hrs, during the tripping of the 220 kV USPH -PNDT feeder on earth fault current of 736.558A, the 220KV LSPH- Bommuru was already in tripped condition. Consequently, the 220KV USPH-DNK-LSPH Bus 1 Feeder was operating as a radial feeder for Lower Sileru Power House. This resulted in the tripping of 220KV USPH Bus. |
| **Protection / Operational Issues observed** | : | |
| **Restoration Details** | : | • The 220 KV Upper Sileru – Pendurthy Feeder was charged @ 13:11 Hrs from Pendurthy end and also charged from Upper Sileru Power House end @ 13:18 Hrs and thereby restoring the Upper Sileru Bus |
| **DR Time synchronization issues observed (सुरक्षा/ प्रचालन समस्या)** | : | False |
| **Remedial Measures Taken (सुधारात्मक सुझाव)** | : | |
| **Relay/PLCC Operation Details** | : | |
| Control Panel Anunciation | : | M-1 Lock out ,86 A B C operated |
| Main I Relay Indications | : | Earth fault operated, AR block |
| Main II Relay Indications | : | AR block |
| Other Relay Indications | : | -- |
| PLCC Counter Increment I/T | : | -- |

| | | |
|---|---|---|
| PLCC Counter Increment D/T | : | -- |
| Fault Current Value (kAmp) | : | 0.736 |
| LA Counter | : | -- |
| Remarks | : | -- |
| **Attachments** | : | 1. Others |