



**Power System Operation Corporation Limited**  
**Western Regional Load Despatch Centre, Mumbai**

Flash Report

MESSAGE NO- May/2016/GD1

DATE: 01/05/2016

- 1. Date and Time of the Event:** At 12:24 hrs of Dt. 1-May-2016
- 2. Location (Control Area) where the event occurred:** Black Out at JP Nigree S/s
- 3. Plant and / or Equipment directly involved:** JP Nigri Unit-1 & 2 ( 660 MW ) got tripped at 12:24 hrs due to tripping of both the evacuation lines

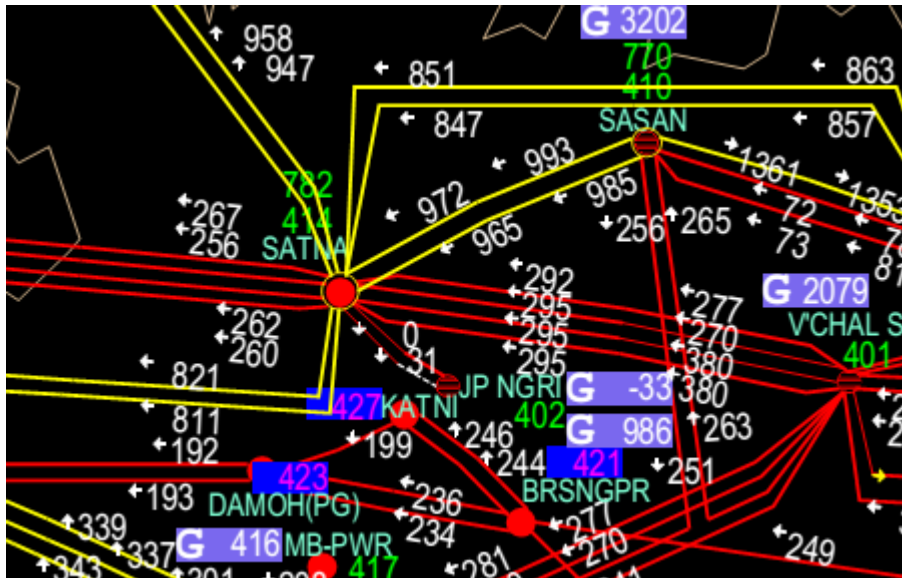
S No	Line Name	kV	Out	Time	Restore	Time	Reason for Outage
1	JP Nigri - Satna -1	400	1/5/2016	12:24:00	1/5/2016	19:46:00	Tripped due to R-PH fault
2	JP Nigri - Satna - 2	400	1/5/2016	12:24:00	1/5/2016	12:55:00	Tripped due to DT Received
3	JP Unit-1	660	1/5/2016	12:24:00	1/5/2016	16:17	LP TURBINE RUPTURE DISC FAIL
4	JP Unit-2	660	1/5/2016	12:24:00	1/5/2016	20:01	LP TURBINE RUPTURE DISC FAIL

- 4. Description and likely cause of event:** JP Nigree Power is evacuated through 400kV JP Nigree-Satna-D/c Line. Before the tipping, JP Nigree plant was generating 1092 MW ( 588 Unit-1 and 504 Unit-2) . At 12:24 hrs JP Nigree-Satna -1 tripped on R-Phase to earth fault. JP Nigree-Satna-2 also tripped on DT Received. Similar event occurred on 14-April-2016. The frequency before the event was 50.04 and after the events frequency fall to 49.91Hz. The fall of 0.13 Hz due to loss of 1092 MW generation loss. It was also reported that Unit tripped due to LP turbine disc rupture.  
This was a GD-1 event due to complete loss of supply at the generating station.

5. **Impact on Grid parameters / Observations due to the event:** Generation Loss of 1092MW with the frequency drop of 0.13Hz

6. **Restoration:** JP Nigee-Satna-1 Line restored at 12:58 hrs and JP Nigree-Satna-2 restored at 19:46 hrs Unit-1 restored at 16:17hrs and Unit-2 restored at 20:01hrs

Post Event at 12:30 hrs



Charge Manager(SO)

**Distribution:**

1. Shift Incharge all Regional Entities of Western Region
  - a. JP Nigree, MPPTCL,
2. Shift Incharge, NLDC, New Delhi
3. Member Secretary (WRPC), Mumbai

**Copy for kind information**

1. Reliability Coordinators /General Manager, WRLDC