



# Power System Operation Corporation Limited

## Western regional Load Dispatch Centre

### FLASH REPORT

**WRLDC/May-2017/GD1/09-05-2017**

**Incident: TRIPPING AT 765KV SATNA (PG), 220KV SATNA (PG), 220/132KV SATNA MP, JP NIGARI.**

**400KV Satna-JP NIGRI circuits-I&II tripped at 16:19Hrs and 16:40Hrs respectively. The tripping of lines lead to interruption of 1083MW power generation of JP Nigri.**

**1. Frequency:**

Event	Frequency(Hz)	Time(hh:mm:ss)
Pre incident	50.00	16:41:24*
Post Incident	49.87	16:41:43*

**\* for tripping of JP Nigrie units only.**

**2. Reason for Tripping: Heavy winds reported near satna area and several 765kv/400kv/220kv lines tripped on various single phase faults (details mentioned in item 4, except MP's internal lines as flash report from MP is awaited).**

**3. Areas Affected By Disturbance: 1083MW JP Nigri generation, SATNA MP 400MW LOAD LOSS**

**4. Elements affected:**

Feeder/ICT	Tripping time (hh:mm)	Restoration time(hh:mm)	Remarks
<b>400KV Satna-JP NIGRI circuit-I</b>	16:19	17:06	YG fault, 18KA, 8.62KM FROM SATNA
765KV SATNA-GWALIOR-II	16:32	17:25	BG fault,15KA, 5KM FROM SATNA, 1.6KA AT GWALIOR
765KV SATNA BUS-II	16:32	18:03	RG FAULT, 18KA
<b>220KV SATNA-SATNA-I</b>	16:39	17:49	BG FAULT, TRIPPING AT PGCIL END ONLY
<b>220KV SATNA-SATNA-II</b>	16:39	17:27	TRIPPING AT MP END ONLY
<b>220KV SATNA-SATNA-III</b>	16:39	17:49	BG FAULT, TRIPPING AT PGCIL END ONLY

<b>400KV Satna-JP NIGRI circuit-II</b>	16:41	17:35	R-PHASE FAULT
<b>JP NIGRI UNIT-I&amp;II</b>	16:41	S/O	TRIPPING OF BOTH LINES OF JP NIGRI-SATNA

**5. Load Affected: 400MW IN MP**

**6. Actions Taken: Flow on Satna 400/220kV ICTs has become floating.**

**JP Nigrie-Satna lines are restored and start up supply extended.**

**MP extended supply to Satna area through 132kV Maihar network.**

**JP Nigrie revised LTA/MTOA/STOA to zero.**

**After yard inspection the tripped feeders were restored one after one.**

**7. Current Status: All feeders restored except for 220/132kV ICT-II at Satna whose B-Phase PI Jumper broken and being rectified. and load at Satna restored.**

**JP Nigrie units are yet to be lighted up.**

**8. Further action required:**

**MP/RTAMC,Vadodara and JP Nigrie are requested to furnish the details of concerned tripping along with relay indications/DR/EL and a flash report.**

**Tripping of Satna Bus-II has to be explained in detail by RTAMC, Vadodara.**

**K Murali Krishna**

**(Shift Charge Manager)**