

## Flash Report : SLDC/STU/Users/Transmission agency/Generators

MPPTCL/OCT-2016/GD –I Name of Incident: 400 KV Main Bus-I at STPS-Sarni.

1. Date and Time: 16/10/2016 and 11:27 Hrs.

2. Antecedent Conditions

I. Frequency of NEW Grid/SR Grid

Event	Frequency	Time(hh:mm)
Pre incident	50.02 HZ	11:26 Hrs.
Post Incident	49.95 HZ	11:28 Hrs.

II. Demand Met - pre:5863 MW / post:5812 MW

- State Generation – pre:2295 MW/ post:2146 MW
- State Load - - pre: 5863 MW / post:5812 MW

3. **Event Description:** 400 KV Satpura-ISP tripped due to transient 3-phase fault. Due to jerk, 400 KV Main Bus-I at STPS tripped due to Bus-Bar and Differential protection operation as a result of which 500 MVA ICT, 400 KV Bus-coupler, 400 KV Satpura-Seoni(PG), 400 KV Satpura-Astha Ckt-I, 63 MVAR Bus Reactor-I, 50 MVA Station Transformer, Unit No.11 which were connected to Main Bus-I also tripped.

4. Lines/ICT/Units tripped and Restoration

Lines/ICT/Unit Tripped	Load prior to fault	Tripping time	Restoration Time
400 KV ISP-Satpura	198 MW	11:27 Hrs	14:25 Hrs.
500 MVA ICT	116 MW	11:27 Hrs	12:46 Hrs.
400 KV Bus Coupler	153 MW	11:27 Hrs	12:25 Hrs.
400 KV Satpura- Seoni(PG)	153 MW	11:27 Hrs	12:34 Hrs.
400 KV Satpura- Astha ckt I	125 MW	11:27 Hrs	12:38 Hrs.
63 MVAR Bus Reactor-I	60 MVAR	11:27 Hrs	12:41 Hrs.
Unit No.11	168 MW	11:27 Hrs	
50 MVA Station Transformer	Not available	11:27 Hrs	12:55 Hrs.

5. **Load Loss** : NIL

6. **Generation Loss** : 168 MW

7. **SUPPLY RESUMED FROM** : 400 KV Main Bus-I was charged through Bus Coupler and further tripped lines, ICT and reactor were also charged.



**Shift Charge Manager**