



Power System Operation Corporation Limited

Western regional Load Despatch Centre

FLASH REPORT

WRLDC/December-2016/GD1/18-12-2016

Incident: Tripping of 400kV Bus-1 & Bus-3 at Korba STPS along with associated feeders

1. Date and Time: 18/12/2016 03:20Hrs

2. Antecedent Conditions

1. Frequency of NEW Grid/SR Grid

Event	Frequency(Hz)	Time(hh:mm:ss)
Pre incident	49.94	03:20:08
Post Incident	49.85	03:20:21

2. Reason for Tripping: CT of Bus sectionalizer-1 between Buses 1 & 3 blasted. Phase not confirmed by NTPC. But from PMU data the phase is understood to be Y-phase.

3. Areas Affected By Disturbance: About 810 MW generation was lost. The availability had been 1855MW. The actual generation at the time of incident has been about 1450MW. However after the disturbance NTPC has declared less by 350MW at running units 4 &5 for safety reasons as intimated by NTPC. The DC was made full at 06:30hrs.

4. Elements affected:

Feeder/ICT	Tripping time (hh:mm)	Restoration time(hh:mm)	Remarks
400KV KORBA NTPC-BHILAI-II	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
400KV KORBA NTPC-RAIPUR-IV	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
400KV KORBA NTPC-KORBA WEST S/C	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
400KV KORBA NTPC-VANDANA S/C	03:20	S/O	Y- CT of Sectionalizer

			blast at KSTPS
400KV KORBA NTPC-VINDHYACHAL-II	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
400KV KORBA NTPC-MAHAN S/C	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
400KV KORBA NTPC-BHATAPARA S/C	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS. Tripped at Korba only, remained charged from Bhatapara
KSTPS UNIT 1	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
KSTPS UNIT 2	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
KSTPS UNIT 3	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS
KSTPS UNIT 7	03:20	S/O	Y- CT of Sectionalizer blast at KSTPS

5. Actions Taken:

All beneficiaries were sensitized regarding loss of generation and advised to take measures to pick up generation so as to match morning peak.

NLDC triggered RRAS UP.

Feeder restoration delayed as yard at NTPC was being inspected and the faulty equipment is being isolated.

6. Current Status:

Code issued to charge Bus-3 through Bus coupler with Bus-4.

NTPC and remote end utilities are requested to intimate the details of tripping along with relevant relay/window indications, DR/EL and also requested to submit flash report of the incident.

K Muralikrishna

(Shift Charge Manager)