



Power System Operation Corporation Limited

Western regional Load Despatch Centre

Report on the Incident in Western region

Incident no: WR/May / GD 1

1. Date and Time of the Incident : 18:07 Hrs ,30-05-2013
2. Incident Name : Bus Fault at 220 kV Padghe (MSETCL)
3. Category : GD -1
4. Systems or sub-systems affected : Padghe and Near By Area
5. Antecedent Condition :

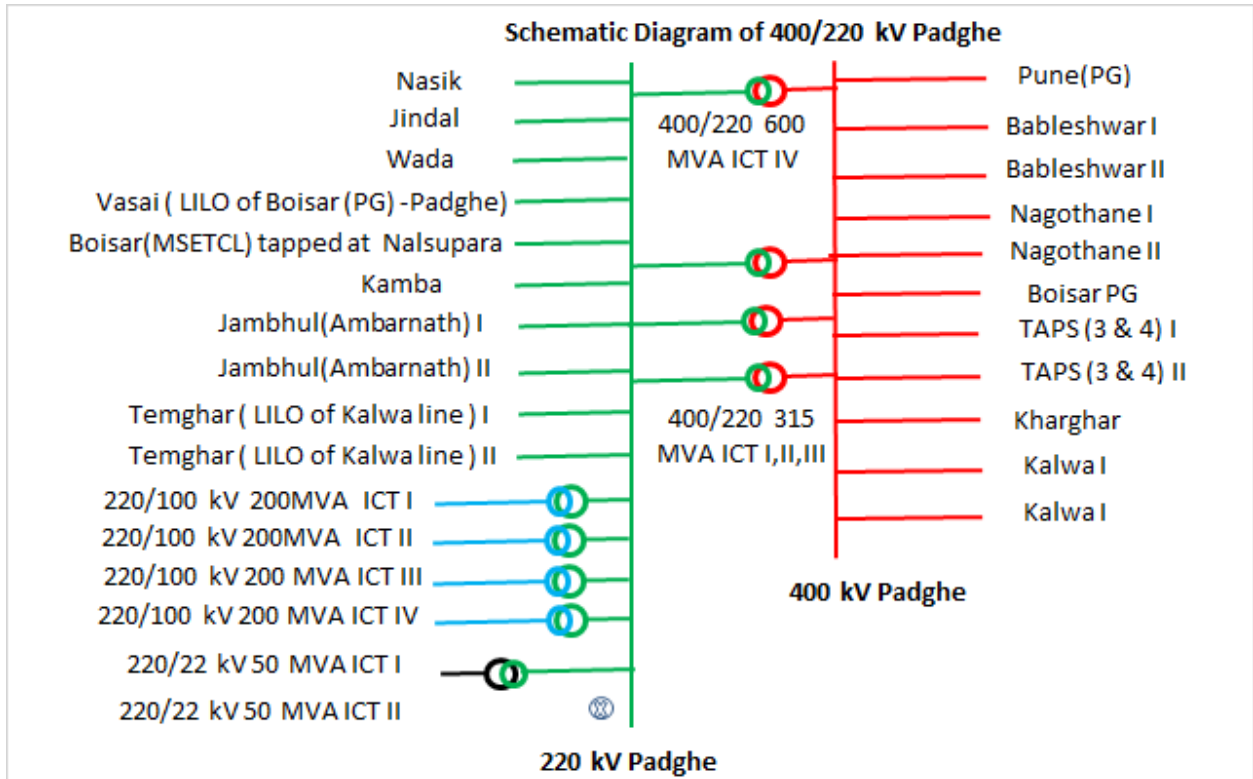
Frequency: 50.515 HZ

Constituent-wise generation and demand details prior to the event (As per WRLDC SCADA data) at 18:05 hrs :

WR Constituents	Demand(in MW)	Generation(in MW)				
		Thermal & Gas	Hydro	Nuclear	Wind	Solar
Gujarat	10692	6620	76	-	1662	72
Maharashtra	13296	8761	350	-	N/A	N/A
Madhya Pradesh	4746	1974	136	-	-	-
Chhattisgarh	2446	1779	40	-	-	-
Goa	253	0	0	-	-	-
DD	267	0	0	-	-	-
DNH	603	0	0	-	-	-
ISGS/IPPs	-	12135	250	1008	-	-
Total	32303	31269	852	1008	1662	72

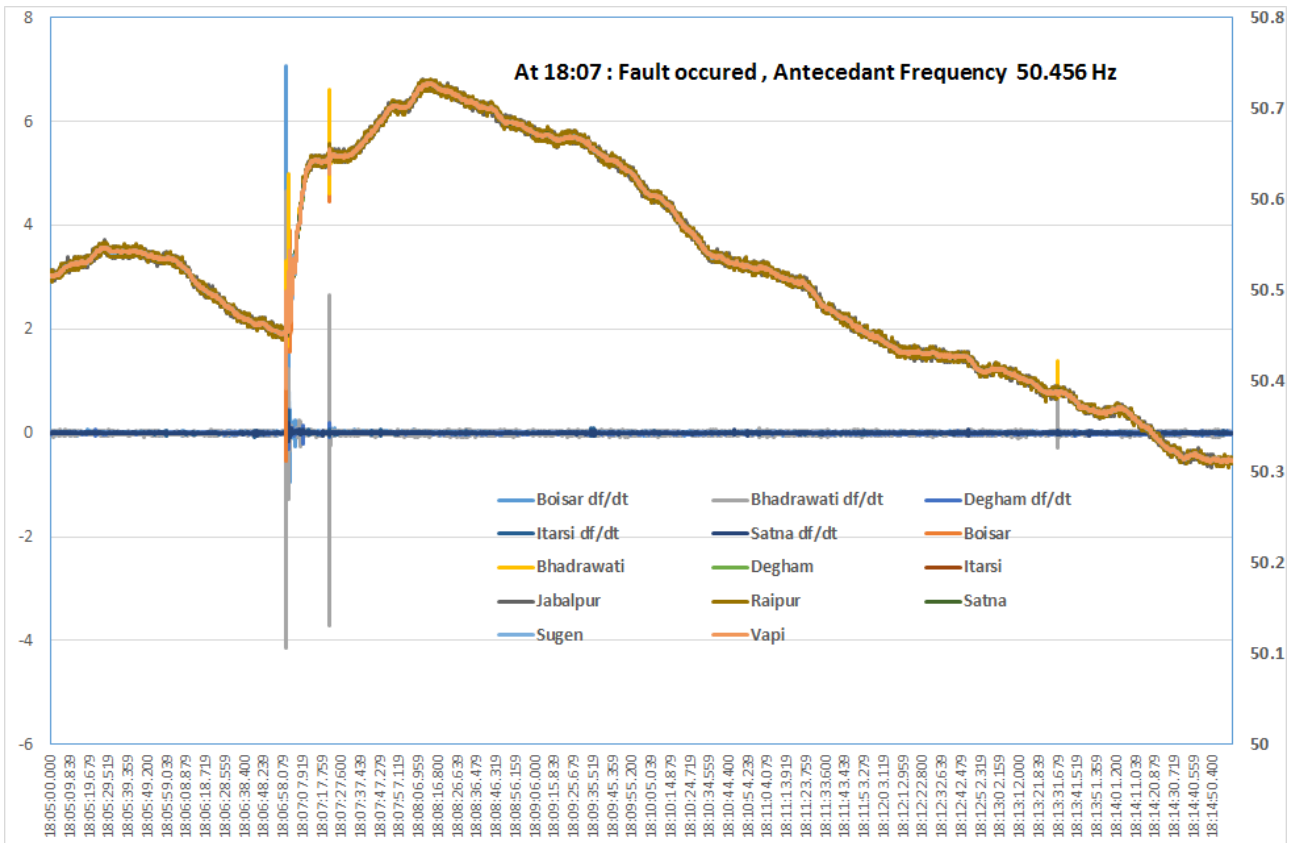
Export = 2560 (Including HVDC Adani 1501 MW) *Sasan Infirm power =195 MW As per (As WRLDC SCADA data)

6. **List of elements which tripped:** All the elements from 220 kV Bus I and Bus II tripped during the occurrence. Feeders are shown in the diagram:



Along with that 400 kV Chandrapur-Padghe pole 1 tripped (tripping of valve cooling) at 18:08 Hrs and restored by 19:01 Hrs.

7. **Reason for tripping:** Y phase-PT of 220 kV Bus-B burst resulted in tripping of all elements on 220 kV Bus A and Bus B.
8. **Restoration time of elements:** Restoration of all 220 kV lines and ICT at Padghe completed and normalcy restored by 19:14 Hrs
9. **Quantum of load loss or generation loss :** Load loss of 700 MW reported by MSETCL.
10. **Time taken by shift personnel to visualize the tripping (Approximate time):** Within Seconds due to PMU Data availability to control room.
11. **Constraints faced in the process of handling the event:** At the same time load crash in MP system was there and MP was underdrawings in the range 512 MW. At the same time Chhattisgarh was underdrawings in range of 150 MW .Messages was given to MP to reduce underdrawal (POSOCO/WRLDC/Messages/5/2374 at 18:04 hrs). Also telephonic conversation were continuously done for reducing the U/D.



(Shift Charge Manager)

(Shift Engineer-1)

(Shift- Engineer-2)