



Power System Operation Corporation Limited
Western regional Load Dispatch Centre
FLASH REPORT

WRLDC/April-2017/GD1/21-04-2017

Incident: Sparking of isolator of Solapur Line @ Kolhapur(MSETCL) observed and fault occurred on 400kV Bus -1 at Kolhapur (MSETCL) resulted in tripping of 400/220kV ICT -1 , ICT-2 along with 400kV Kolhapur – Karad ckt 1 , 400kV Kolhapur – Kolhapur (PG) ckt 1 , 400kV Kolhapur – Alkud line and 400kV Kolhapur – Solapur(PG) at 14:22 Hrs.

1. Date and Time: 21/04/17 14:22 Hrs

2. Antecedent Conditions

1. Frequency:

Event	Frequency(Hz)	Time(hh:mm:ss)
Pre incident	49.87	14:21:50
Post Incident	49.88	14:23:00

2. Reason for Tripping:

Sparking of line isolator of Solapur Line @ Kolhapur(MSETCL) , 400kV Bus -1 fault occurred at Kolhapur (MSETCL) . In Solapur PMU, Y-phase&B-phase fault occurred

3. Areas Affected By Disturbance: No generation loss reported. Load shedding of around 200 MW took place due to operation of load trimming scheme of tripping ICTs-1 &2 at Kolhapur

4. Elements affected:

Feeder/ICT	Tripping time (hh:mm)	Restoration time(hh:mm)	Remarks
400kV Bus-1 @ Kolhapur (MSETCL)	14:22	14:53	Due to operation of Bus Bar protection of 400kv Bus -1 .

ICT-1@Kolhapur(MSETCL)	14:22	14:55	Due to operation of Bus Bar protection of 400kv Bus -1 .
ICT-2@Kolhapur(MSETCL)	14:22	14:55	Due to operation of Bus Bar protection of 400kv Bus -1 .
400kV Kolhapur – Karad ckt 1	14:22	14:54	Due to operation of Bus Bar protection of 400kv Bus -1 .
400kV Kolhapur – Kolhapur (PG) ckt 1	14:22	15:11	Due to operation of Bus Bar protection of 400kv Bus -1 .
400kV Kolhapur – Alkud line	14:22	15:26	Due to operation of Bus Bar protection of 400kv Bus -1 .
400kV Kolhapur – Solapur(PG)	14:22	S/O	Due to operation of Bus Bar protection of 400kv Bus -1 .

5. Generation Affected:

Nil

6. Actions Taken:

As line loadings were within limits and voltages were normal no immediate action was initiated.

The bus coupler at Kolhapur was closed at 14:53hrs. and the feeders were restored one after one.

7. Change in Line flows:

Line	Before Incident	After incident
765 kV Raichur Solapur D/C	800	1200
400kV Kolhapur – Karad ckt 2	-100	-440
400 kV Solapur Karad	300	440

8. Current Status:

400kV Bus -1 , ICT -1 , ICT -2 @ Kolhapur , 400kV Kolhapur – Karad ckt 1 and Kolhapur-Kolhapur(PG)-I and Alkud line have been restored immediately. Solapur-Kolhapur direct line is kept out for checking and healthiness is yet to confirmed by SLDC Kalwa.

9. Further action required:

Details of tripping along with Relays/DR/EL to be furnished by SLDC Kalwa.

Isolator checking of Solapur—Kolhapur line has to be carried out.



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K Muralikrishna

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