

Sl. No.	Corridor / Line	Import TTC/ATC Curtailement in WR-SR/ER, SR/SR Import (MW)	Export TTC/ATC Curtailement SR- W/SR Export (MW)
1	Raichur–Solapur D/C	1500	2400
2	Raichur–Solapur-1 & Raichur–Kurnool-1	200	800
3	Raichur–Kurnool D/C	300	2600

Ready Reckoner for TTC/ATC Revision for Credible Contingencies in SR-WR/SR Export Corridor

S. No.	Case (A)	Limiting contingency (N-1) (B)	Limiting constraint (C)	TTC Reduction from Base Case (N-0) in SR-WR/SR Export Corridor
1	Base Case (N-0)	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
2	Outage of HVDC Talcher-Kolar Single Pole	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
3	Outage of Talcher-Kolar Bipole	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
4	Outage of HVDC Raigarh - Pugalur Bipole-1 *(Considered Power Order 500MW)	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-350
5	Outage of HVDC Raigarh - Pugalur Bipole-2 *(Considered Power Order 1500MW)	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-1050
	Outage of HVDC Raigarh - Pugalur Bipole-1&2 *(Considered Power Order in Pole-2: 1500MW) *(Considered Power Order in Pole-1: 500MW)	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-1400
6	Outage of Gazuwaka Block- 1	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
7	Outage of Gazuwaka Block -1 & 2	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
8	Outage of Bhadrawati Block - 1	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-300
9	Outage of Bhadrawati Block -1 & 2	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-600
10	Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Outage of one circuit of 765 kV Solapur - Raichur D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-1000
11	Outage of both circuits of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-3400
12	Outage of one circuit of 400 kV Kolhapur (PG) - Kolhapur (MS) D/C	1. Outage of one circuit of 765 kV Solapur - Raichur D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-300
13	Outage of both circuit of 400 kV Kolhapur (PG) - Kolhapur (MS) D/C	1. Outage of one circuit of 765 kV Solapur - Raichur D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-2000
14	Outage of 765 kV Wardha- Nizamabad S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-200
15	Outage of 765 kV Nizamabad-Wardha D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-400
16	Outage of 765 kV Srikakulam- Vemagiri S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
17	Outage of 765 kV Srikakulam- Vemagiri D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
18	Outage of 765 kV Raichur-Solapur S/C	Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-700
19	Outage of 765 kV Raichur-Solapur D/C	Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-2400
20	Outage of 765 kV Nizamabad - Maheshwaram S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-100
21	Outage of 765 kV Nizamabad - Maheshwaram D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-250

Ready Reckoner for TTC/ATC Revision for Credible Contingencies in SR-WR/SR Export Corridor

S. No.	Case (A)	Limiting contingency (N-1) (B)	Limiting constraint (C)	TTC Reduction from Base Case (N-0) in SR-WR/SR Export Corridor
22	Outage of 765 kV Angul-Srikakulam S/C	Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
23	Outage of 765 kV Angul-Srikakulam D/C	Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
24	Outage of 765 kV Aurangabad- Solapur S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-200
25	Outage of 765 kV Aurangabad- Solapur D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-300
26	Outage of 765 kV Aurangabad-Pagdhe S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-150
27	Outage of 765 kV Pune-Solapur-S/C	Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-300
28	Outage of 765 kV Vemagiri- Chilkaluripeta S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
29	Outage of 765 kV Vemagiri- Chilkaluripeta D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
30	Outage of 765 kV Gadarwara- Warora S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
31	Outage of 765 kV Gadarwara-Warora D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
32	Outage of 765 kV Warora- Rajnandgaon S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
33	Outage of 765 kV Warora- Rajnandgaon D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
34	Outage of 765 kV Durg-Rajnandgaon S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
35	Outage of 765 kV Durg-Rajnandgaon D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
36	Outage of 765 kV Warora-New Parli S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-100
37	Outage of 765 kV Warora-New Parli D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-300
38	Outage of 765 kV New Parli-Solapur S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
39	Outage of 765 kV New Parli-Solapur D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
40	Outage of 765 kV Wardha- Aurangabad D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-200
41	Outage of 765 kV Warora- Warangal S/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-150
42	Outage of 765 kV Warora- Warangal D/C	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-300

Ready Reckoner for TTC/ATC Revision for Credible Contingencies in SR-WR/SR Export Corridor

S. No.	Case (A)	Limiting contingency (N-1) (B)	Limiting constraint (C)	TTC Reduction from Base Case (N-0) in SR-WR/SR Export Corridor
43	Outage of 765/400 kV single ICT at Raichur	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	-250
44	Outage of 765/400 kV single ICT at Nizamabad	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
45	Outage of 765/400 kV single ICT at Maheshwaram	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
46	Outage of 765/400 kV single ICT at Srikakulam	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
47	Outage of 765/400 kV single ICT at Vemagiri	1. Outage of one circuit of 400 kV Kudgi(PG) - Kolhapur (PG)-D/C 2. Outage of one of the 2x1500 MVA, 765/400 kV ICTs at Raichur	1. Angular separation between Kudgi(PG) & Kolhapur (PG) exceeds 30 degree. 2. Overloading of the other 1500 MVA, 765/400 kV ICT at Raichur	0
Note	<i>Other Limiting Constraints: N-1 non-compliance of 3*1500 MVA, 765/400 kV ICTs at Section– B at Raigarh – PS (Kotra) with the operation of HVDC Raigarh – Pugalur Bipole – 1 in SR-WR direction, N-1 Contingency of 400 kV Kolhapur – Karad D/C will overload the other circuit, High loading of lines and low voltages of important nodes in Western Maharashtra</i>			
	<i>The outage of 400 kV Kudgi - Kolhapur D/c or 400 kV Kolhapur (PG) - Kolhapur (MS) will relieve the laoding of lines in Western Maharashtra</i>			
	<i>The flow in the SR-ER corridor is in the direction of ER to SR even during the SR Export scenario. This leads to the declaration of lesser SR Export TTC figure than SR-WR TTC</i>			

SENSITIVITY OF TRANSMISSION ELEMENT OUTAGES ON OTHER TRANSMISSION ELEMENTS											
Name of the Element Under Outage	Sensitivity(%) on										
	400 kV Kudgi PG - Kolhapur-PG D/C (each ckt)	400 kV Kolhapur (PG) - Kolhapur (MS) D/C (each ckt)	400 kV Narendra - Kudgi D/C (each ckt)	400 kV Kolhapur (PG) - Mapusa (PG) D/C (each ckt)	400 kV Kolhapur (MS) - Karad (MS) D/C (each ckt)	400 kV Karad - Jejuri-S/C	765 kV Raichur - Solapur D/C (each ckt)	400 kV Pune - Pune Q/C (each ckt)	400 kV Pune - Khargar-S/C	400/220 kV Kolhapur ICT (each ICT)	765/400 kV, 1500 MVA Raichur ICT (each ICT)
Outage of One ckt of 400 kV Kudgi - Kolhapur D/C	-46.0%	24.5%	-9.6%	1.4%	10.5%	6.2%	-10.7%	-3.1%	1.7%	3.4%	-7.5%
Outage of One ckt of 400 kV Kolhapur (PG) - Kolhapur (MS) D/C	11.7%	-73.5%	3.8%	-2.4%	4.8%	2.4%	-4.0%	-1.0%	0.2%	2.7%	-2.8%
Outage of One ckt of 400 kV Narendra - Kudgi D/C	10.3%	9.7%	-42.4%	0.6%	4.1%	2.5%	-4.7%	-0.8%	0.1%	1.0%	-3.7%
Outage of One ckt of 400 kV Kolhapur (PG) - Mapusa (PG) D/C	3.8%	-8.8%	1.7%	-74.9%	-0.2%	2.1%	-1.7%	-0.8%	0.2%	-5.9%	-1.2%
Outage of One ckt of 400 kV Kolhapur (MS) - Karad (MS) D/C	8.0%	8.4%	3.4%	-0.6%	-45.1%	8.1%	-2.9%	-2.4%	0.3%	-9.0%	-2.4%
Outage of 400 kV Karad - Jejuri-S/C	4.7%	4.4%	1.9%	0.1%	9.0%	-100.0%	-1.6%	-3.2%	7.7%	-0.6%	-1.4%
Outage of One ckt of 765 kV Raichur - Solapur D/C	-3.1%	-2.9%	-1.4%	-0.1%	-1.2%	-0.8%	-49.6%	0.7%	0.8%	-0.4%	7.1%
Outage of One ckt of 400 kV Pune - Pune Q/C	-0.9%	-0.8%	-0.4%	0.0%	-1.3%	-1.6%	0.7%	-26.6%	4.8%	-0.1%	0.4%
Outage of one ICT of 400/220 kV Kolhapur ICT	2.4%	4.9%	1.0%	-2.6%	-10.3%	0.0%	-1.0%	-0.3%	-0.1%	-35.7%	-0.7%
Outage of one ICT of 2*1500 MVA, 765/400 kV ICT at Raichur	-1.6%	-1.5%	-1.1%	-0.1%	-0.7%	-0.4%	5.9%	0.2%	0.1%	-0.2%	-55.5%
Note- +ve Sensitivity means an outage of the line would reduce the loading on others while -ve sensitivity means an outage of the line would increase the loading on other lines.											

SENSITIVITY OF HVDC LINKS AND GENERATION INJECTION ON LINE LOADINGS							
% Sensitivity on Line Loadings of	Increase in HVDC Link Power Order				Increase in Injection of ISGS Generating Plant		
	HVDC Talcher - Kolar (ER to SR)	HVDC Gazuwaka (SR to ER)	HVDC Raigarh - Pugalur (SR to WR)	HVDC Bhadravathi (SR to WR)	Kudgi - NTPC	Simhadri - NTPC	Ramagundam - NTPC
400 kV Kudgi - Kolhapur D/C	4.9	-2.1	-4.5	-1.7	15.5	2.3	2.4
400 kV Kolhapur (PG) - Kolhapur (MS) D/C	4.5	-1.9	-4.2	-1.6	14.3	2.1	2.2
400 kV Narendra - Kudgi D/C	1.7	-0.8	-1.6	-0.6	-13.1	0.9	0.9
400 kV Kolhapur (PG) - Mapusa (PG) D/C	0.2	-0.1	-0.2	0	0.6	0.1	0.1
400 kV Kolhapur (MS) - Karad (MS) D/C	2.8	-1.2	-2.4	-0.8	7.6	1.4	1.5
400 kV Karad - Jejuri	1.5	-0.6	-1.4	-0.6	4.5	0.7	0.7
765 kV Raichur - Solapur D/C	11.8	-7.5	-12.4	-12.3	9.4	9	10.1
400 kV Pune - Pune Q/C	-0.3	0.1	0.3	0.1	-1.2	0.1	0.1
400/220 kV Kolhapur ICT - 1	0.6	-0.2	-0.5	0.5	1.9	0.3	0.4
765/400 kV, 1500 MVA Raichur ICT - 1	7.8	-2	-7.1	-3.6	9.1	2.4	2.9
Note- +ve Sensitivity means an increase in HVDC Power Order in the indicated direction or injection of power by the ISGS Generating Station will increase the line loading and -ve Sensitivity means an increase in HVDC Power Order in the indicated direction or injection of power by the ISGS Generating Station will decrease the line loading							

SENSITIVITY OF ISTS RE GENERATION IN SR ON LINE LOADINGS					
Sl No	SR ISTS RE Pooling Station	Reduction in Line Loading with 100 MW Reduction in SR ISTS RE Generation			
		400 kV Kudgi- Kolhapur D/C (Each ckt)	400 kV Kolhapur - Karad D/C (Each ckt)	765 kV Raichur - Solapur D/C (Each ckt)	2*1500 MVA 765/400 kV Raichur ICT (Each ICT)
1	Koppal	16.0%	6.2%	9.7%	9.4%
2	Hiriyur	7.0%	2.8%	13.4%	11.7%
3	Pavagada	6.0%	2.4%	13.4%	10.4%
4	NP-Kunta	3.0%	1.7%	13.0%	5.4%
5	Tuticorin	4.0%	1.9%	12.1%	6.8%
6	Pugalur	4.0%	1.8%	12.0%	6.3%
7	Karur	5.0%	2.0%	12.0%	6.0%