

Ready Reckoner for Credible Contingencies in NEW-SR corridor										
S. No.	Case (A)	Limiting contingency (N-1) (B)	Limiting constraint (C)	ER-SR TTC (D)	WR-SR TTC (E)	NEW-SR/ SR Import TTC (F)	RM (G)	ATC (H)	TTC Change w.r.t. base case	Next Limiting Constraint
1	Base Case	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 800 MW w.r.t. column 'F'
2	Outage of HVDC Talcher-Kolar Single Pole	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	5350	16100	21450	1000	15400	-850	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 170 MW w.r.t. column 'F'
3	Outage of Talcher-Kolar Bipole	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	4300	16100	20400	1000	14500	-1900	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 700 MW w.r.t. column 'F'
4	Outage of HVDC Raigarh - Pugalur Monopole	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6000	15050	21050	1000	15000	-1250	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 100 MW w.r.t. column 'F'
5	Outage of HVDC Raigarh - Pugalur Bipole	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6000	13500	19500	1000	13700	-2800	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 800 MW w.r.t. column 'F'
6	Outage of HVDC Raigarh - Pugalur Bipole 1 & 2	Outage of one ckt of 765 kV Angul - Srikakulam DC	Overloading of other ckt of 765 kV Angul - Srikakulam DC	6000	10300	16300	1000	10700	-6000	N-1 of 765 kV Wardha - Nizamabad D/C will overload the other ckt with TTC increment of 1000 MW w.r.t. column 'F'
7	Outage of Gazuwaka Block- 1 (Flow on other block increased to 500 MW)	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6100	16100	22200	1000	16200	-100	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 600 MW w.r.t. column 'F'
8	Outage of Gazuwaka Block -1 & 2	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	5700	15950	21650	1000	15700	-650	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 100 MW w.r.t. column 'F'
9	Outage of Bhadravati Block - 1	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6150	15400	21550	1000	15250	-750	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 1300 MW w.r.t. column 'F'
10	Outage of Bhadravati Block -1 & 2	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6100	14700	20800	1000	14200	-1500	N-1 of 765 kV Wardha - Nizamabad D/C will overload the other ckt with TTC increment of 1700 MW w.r.t. column 'F'
11	Outage of one circuit of 765 kV Wardha- Nizamabad D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6000	15700	21700	1000	15700	-600	Tripping of a monopole of HVDC Raigarh - Pugalur will overload the other circuit of 765 Wardha - Nizamabad D/C with TTC increment of 150 MW w.r.t. column 'F'
12	Outage of both circuits of 765 kV Wardha- Nizamabad D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6000	13400	19400	1000	13200	-2900	N-1 of 765 kV Solapur - Raichur DC will overload the other circuit with TTC increment of 2400 MW w.r.t. column 'F'
13	Outage of any one circuit of 765 kV Srikakulam- Vemagiri D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	5800	16100	21900	1000	15850	-400	N-1 of 765 kV Wardha - Nizamabad D/C will overload the other ckt with TTC increment of 800 MW w.r.t. column 'F'
14	Outage of 765 kV Srikakulam- Vemagiri D/C	Outage of 765/400 kV Srikakulam single ICT	Overloading of 765/400 kV Srikakulam other ICT	4350	14600	18950	1000	14700	-3350	N-1 of 765 kV Wardha - Nizamabad D/C will overload the other ckt with TTC increment of 3000 MW w.r.t. column 'F'
15	Outage of 765 kV Raichur-Solapur S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	15950	22150	1000	21150	-150	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
16	Outage of 765 kV Raichur-Solapur D/C	Outage of any one circuit of 765kV Wardha - Nizamabad D/C	Overloading of the other circuit of 765kV Wardha - Nizamabad D/C	6200	14600	20800	1000	14500	-1500	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 600 MW w.r.t. column 'F'
17	Outage of 765 kV Nizamabad - Maheshwaram S/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1000	14950	0	Outage of 765/400 kV Raichur single ICT will overload the other ICT with TTC increment of 1300 MW w.r.t. column 'F'
18	Outage of 765 kV Nizamabad - Maheshwaram D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1000	11850	0	N-1 of 765 kV Angul-Srikakulam will overload the other circuit with TTC increment of 1650 MW w.r.t. column 'F'
19	Outage of one circuit of 765 kV Angul- Srikakulam D/C	Outage of HVDC Raigarh-Pugalur Monopole	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	5400	16100	21500	1000	15500	-800	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 100 MW w.r.t. column 'F'
20	Outage of both circuits of 765 kV Angul- Srikakulam D/C	Outage of any one circuit of 765kV Wardha - Nizamabad D/C	Overloading of the other circuit of 765kV Wardha - Nizamabad D/C	2650	16100	18750	1000	12800	-3550	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 200 MW w.r.t. column 'F'
21	Outage of 765 kV Raichur - Solapur S/C along with 765 kV Wardha - Nizamabad S/C	Outage of HVDC Raigarh-Pugalur Monopole	Overloading of the other circuit of 765kV Wardha - Nizamabad D/C	6200	14800	21000	1000	14500	-1300	N-1 of 765 kV Warora - Warangal D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 500 MW w.r.t. column 'F'
22	Outage of 765 kV Raichur - Solapur S/C along with 765 kV Angul - Srikakulam S/C	Outage of HVDC Raigarh-Pugalur Monopole	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	5400	15700	21100	1000	15050	-1200	Outage of one pole of HVDC Talcher - Kolar will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 500 MW w.r.t. column 'F'

Ready Reckoner for Credible Contingencies in NEW-SR corridor										
S. No.	Case (A)	Limiting contingency (N-1) (B)	Limiting constraint (C)	ER-SR TTC (D)	WR-SR TTC (E)	NEW-SR/SR Import TTC (F)	RM (G)	ATC (H)	TTC Change w.r.t. base case	Next Limiting Constraint
23	Outage of 765 kV Wardha - Nizamabad S/C along with 765 kV Angul - Srikakulam S/C	Outage of HVDC Raigarh-Pugalur Monopole	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	5400	15000	20400	1000	13000	-1900	Outage of one pole of HVDC Talcher - Kolar will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 500 MW w.r.t. column 'F'
24	Outage of one pole of HVDC Talcher - Kolar along with one ckt of 765 kV Raichur - Solapur D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	5300	15800	21100	1000	15000	-1200	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 500 MW w.r.t. column 'F'
25	Outage of one circuit of 765 kV Warora - Warangal D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	15400	21600	1001	20599	-700	N-1 of 765 kV Wardha - Nizamabad D/C will overload the other ckt with TTC increment of 150 MW w.r.t. column 'F'
26	Outage of both circuits of 765 kV Warora - Warangal D/C	Outage of any one circuit of 765kV Wardha - Nizamabad D/C	Overloading of the other circuit of 765kV Wardha - Nizamabad D/C	6200	13150	19350	1002	18348	-2950	Outage of one pole of HVDC Talcher - Kolar will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 500 MW w.r.t. column 'F'
27	Outage of single circuits of 765 kV Warangal - C'Peta D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	15650	21850	1003	20847	-450	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 1600 MW w.r.t. column 'F'
28	Outage of both circuit of 765 kV Warangal - C'Peta D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6050	14500	20550	1003	19547	-1750	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 1600 MW w.r.t. column 'F'
29	Outage of single circuit of 765 kV Warangal - Maheshwaram D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1004	21296	0	NO IMPACT
30	Outage of both circuit of 765 kV Warangal - Maheshwaram D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1004	21296	0	NO IMPACT
31	Outage of one circuit of 765 kV Kurnool - Maheshwaram D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6100	15300	21400	1005	20395	-900	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 1800 MW w.r.t. column 'F'
32	Outage of both circuits of 765 kV Kurnool - Maheshwaram D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	5800	13800	19600	1005	18595	-2700	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 3500 MW w.r.t. column 'F'
33	Outage of both circuits of 765 kV Nizamabad - Maheshwaram D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1005	21295	0	NO IMPACT
34	Outage of 400 kV Jeypore - G'waka S/C (HVDC Power Order kept at 350 MW) - *Actual Restriction to be Confirmed in the Real-time	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6000	16100	22100	1000	21100	-200	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
35	Outage of 400 kV Jeypore - Bolangir S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
36	Outage of 400 kV Jeypore - Indravati S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
37	Outage of 400 kV Indravati - Rengali S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
38	Outage of 765 kV Aurangabad - Solapur S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT

Ready Reckoner for Credible Contingencies in NEW-SR corridor										
S. No.	Case (A)	Limiting contingency (N-1) (B)	Limiting constraint (C)	ER-SR TTC (D)	WR-SR TTC (E)	NEW-SR/SR Import TTC (F)	RM (G)	ATC (H)	TTC Change w.r.t. base case	Next Limiting Constraint
39	Outage of 765 kV Aurangabad- Pagdhe S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
40	Outage of 765 kV Aurangabad-Pune S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
41	Outage of 765 kV Vemagiri- Chikaluripeta S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
42	Outage of 765 kV Vemagiri- Chikaluripeta D/C	Outage of any one circuit of 400 kV Vemagiri (PG) - Vemagiri D/C	Overloading of other circuit of 400 kV Vemagiri (PG) - Vemagiri D/C	5600	15100	20700	1000	19700	-1600	N-1 of 2x1500 MVA, 765/400 kV Vemagiri PG will overload the other ICT with TTC increment of approx. 1000 MW w.r.t. column 'F'
43	Outage of 765 kV Gadawara- Warora S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
44	Outage of 765 kV Gadawara- Warora D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	15500	21700	1000	20700	-600	N-1 of 765 kV Wardha - Nizamabad D/C will overload the other ckt with TTC increment of 1000 MW w.r.t. column 'F'
45	Outage of 765 kV Warora- Rajnandgaon S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
46	Outage of 765 kV Warora- Rajnandgaon D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	15300	21500	1000	20500	-800	N-1 of 765 kV Wardha - Nizamabad D/C will overload the other ckt with TTC increment of 400 MW w.r.t. column 'F'
47	Outage of any one Circuit of Cuddapah - Thiruvalem D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
48	Outage of Both Circuits of Cuddapah - Thiruvalem D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	15900	22100	1000	21100	-200	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
49	Outage of 765 kV Durg-Rajnandgaon S/C	Outage of 765/400 kV 1500 MVA single ICT at Nizamabad	Overloading of other 765/400 kV 1500 MVA ICT at Nizamabad	6200	16100	22300	1000	21300	0	NO IMPACT
50	Outage of 765 kV Durg-Rajnandgaon D/C	Outage of 765/400 kV 1500 MVA single ICT at Nizamabad	Overloading of other 765/400 kV 1500 MVA ICT at Nizamabad	6200	16100	22300	1000	21300	0	NO IMPACT
51	Outage of 765 kV Warora-New Parli S/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	15950	22150	1000	21150	-150	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 700 MW w.r.t. column 'F'
52	Outage of 765 kV Warora-New Parli D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	15650	21850	1000	20850	-450	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 700 MW w.r.t. column 'F'
53	Outage of 765 kV New Parli-Solapur S/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
54	Outage of 765 kV New Parli-Solapur D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	15850	22050	1000	21050	-250	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
55	Outage of 765 kV Seoni-Bilaspur S/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1000	21300	0	NO IMPACT
56	Outage of 765 kV Seoni-Bilaspur D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1000	21300	0	NO IMPACT
57	Outage of 765 kV Seoni-Wardha S/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1000	21300	0	NO IMPACT

Ready Reckoner for Credible Contingencies in NEW-SR corridor										
S. No.	Case (A)	Limiting contingency (N-1) (B)	Limiting constraint (C)	ER-SR TTC (D)	WR-SR TTC (E)	NEW-SR/SR Import TTC (F)	RM (G)	ATC (H)	TTC Change w.r.t. base case	Next Limiting Constraint
58	Outage of 765 kV Seoni-Wardha D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	16100	22300	1000	21300	0	NO IMPACT
59	Outage of 765 kV Durg-Wardha D/C	Outage of one ckt of 765 kV Angul - Srikakulam DC	This will lead to an Angular separation of 20 degrees between Angul & Srikakulam	6200	15600	21800	1000	20800	-500	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 1000 MW w.r.t. column 'F'
60	Outage of a single D/C of 765 kV Wardha-Aurangabad D/C	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6200	16100	22300	1000	21300	0	NO IMPACT
61	Outage of both the D/C of 765 kV Wardha-Aurangabad D/C	Outage of any one of the two circuits of 765 kV Wardha - Nizamabad D/C	Overloading of other circuit of 765 kV Wardha - Nizamabad D/C	6050	14600	20650	1000	19650	-1650	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 1700 MW w.r.t. column 'F'
62	Outage of 765/400 kV single ICT at Nizamabad	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6150	15550	21700	1000	20700	-600	N-1 of 765 kV Angul-Srikakulam D/C will lead to an Angular separation of 20 degrees between Angul & Srikakulam with TTC increment of 400 MW w.r.t. column 'F'
63	Outage of 765/400 kV single ICT at Maheshwaram	Outage of one ckt of 765 kV Kurnool-Maheshwaram-D/C	Overloading of 765/400 kV Maheshwaram other ICT	6150	15450	21600	1000	20600	-700	Over-loading of the other 765/400 kV ICT at Maheshwaram under N-1 tripping of one pole of HVDC Raigarh-Pugalur with TTC increment of 150 MW w.r.t. column 'F'
64	Outage of 765/400 kV single ICT at Srikakulam	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6150	16100	22250	1000	21250	-50	N-1 of 765 kV Angul- Srikakulam D/C under N-1 of other circuit with TTC increment of 150 MW w.r.t. column 'F'
65	Outage of 765/400 kV single ICT at Vemagiri	Outage of 765/400 kV Maheshwaram single ICT	Overloading of 765/400 kV Maheshwaram other ICT	6150	15950	22100	1000	21100	-200	N-1 of 765 kV Angul- Srikakulam D/C under N-1 of other circuit with TTC increment of 1250 MW w.r.t. column 'F'
66	Disconnection of Complete Eastern Grid	Outage of any one of the two circuits of 765 kV Wardha - Nizamabad D/C	Overloading of other circuit of 765 kV Wardha - Nizamabad D/C	0	16300	16300	1000	15300	-6000	Outage of 765/400 kV Maheshwaram single ICT will overload the other ICT with TTC increment of 700 MW w.r.t. column 'F'
Assumptions:										
a) All India case with updated network and LGB has been taken for study purpose										
b) HVDC flows considered are as under:- HVDC Talcher - Kolar - 2000 MW (ER-SR), HVDC Raigarh - Pugalur - 6000 MW(WR-SR), HVDC G'waka - 650 MW(ER-SR) HVDC Bhadravati - 1000 MW(WR-SR)										
c) The permissible limit considered for all 765 kV lines is 2750 MW (4173 MVA for 765 kV Angul - Srikakulam D/C as confirmed by the site). In case of 400 kV and below voltage level lines, thermal limit has been taken as permissible limit										

Ready Reckoner for Credible Contingencies in NEW-SR corridor								
Sensitivity of Important ICTs								
Name of the Contingency	Sensitivity (%) On other ICT	Safe Limit on one ICT when both ICTs are in operation (MW)						
Outage of 765/400 kV 1500MVA Maheshwaram single ICT	39.80	1073						
Outage of 765/400 kV 1500MVA Vemagiri single ICT	59.00	932						
Outage of 765/400 kV 1500MVA Raichur single ICT	55.40	965						
Outage of 765/400 kV 1500MVA Srikakulam single ICT	78.80	842						
Name of the Contingency	Sensitivity(%) on							
	765 kV Angul Srikakulam S/C	765 kV Wardha - Nizamabad S/C	765 kV Solapur - Raichur S/C	765 kV Warora - Warangal	765 kV Nizamabad- Maheshwaram	765/400 kV Maheshwaram ICT	765/400 kV Raichur ICT	765/400 kV Srikakulam ICT
Outage of one circuit of 765 kV Angul- Srikakulam DC D/C	-60.4%	-6.3%	-5.5%	-7.2%	-3.3%	-1.7%	-1.4%	5.2%
Outage of one circuit of 765 kV Wardha- Nizamabad D/C	-5.7%	-43.3%	-10.6%	-10.9%	18.4%	1.0%	-2.2%	-1.7%
Outage of one circuit of 765 kV Solapur - Raichur D/C	-3.8%	-8.5%	-51.5%	-9.3%	-5.7%	-1.2%	6.9%	-1.1%
Outage of one circuit of 765 kV Warora - Warangal D/C	-7.1%	-11.9%	-12.4%	-34.9%	-8.1%	2.2%	-2.4%	-1.7%
Sensitivity of HVDCs on Important Elements of NEW-SR corridor (All HVDCs considered in NEW to SR Direction)								
HVDC Name	765 kV Angul Srikakulam S/C	765 kV Wardha Nizamabad S/C	765 kV Solapur - Raichur S/C	765 kV Warora - Warangal S/C	765 kV Nizamabad- Maheshwaram S/C	765/400 kV Maheshwaram Single ICT	765/400 kV Raichur ICT	765/400 kV Srikakulam Single ICT
HVDC Talcher - Kolar	-10.1%	-9.4%	-12.0%	-9.2%	-6.0%	-2.1%	-8.0%	-2.4%
HVDC Bhadravati	-6.1%	-14.2%	-12.0%	-12.7%	-1.0%	-7.0%	-3.0%	-1.7%
HVDC Gazuwaka	-20.4%	-9.4%	-8.0%	-10.0%	-4.0%	-3.6%	-2.4%	-11.8%
HVDC Raigarh - Pugalur	-9.6%	-10.9%	-12.8%	-10.7%	-6.5%	-2.5%	-7.2%	-2.3%
Note:- (+ve sensitivity indicate tripping of line, reduction in generation or decrease of HVDC Power Order will reduce the line flows, whereas -ve sensitivity indicates tripping of line, reduction in generation or decrease of HVDC Power Order will increase the line flows)								