

**National Load Despatch Centre
Total Transfer Capability for May 2011**

Issue Date: 04/05/2011

Issue Time: 1000 hrs

Revision No. 4

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Comments
NR-WR	1st May 2011 to 31st May 2011	00-24	1500	200	1300	55	1245	
WR-NR	1st May 2011 to 31st May 2011	00-24	1900	200	1700	0	1700	
NR-ER	1st May 2011 to 31st May 2011	00-24	850	200	650	0	650	
ER-NR#	1st May 2011 to 14th May 2011	00-17 23-24	2800	300	2500	1164	1336	
		17-23	3000		2700	1199	1501	
	15th May 2011 to 25th May 2011	00-17 23-24	2000	300	1700	1164	536	Revised due to shutdown of 400kV Malda-Purnea D/C and 400 kV Maithon- Jamshedpur S/c
		17-23	2400		2100	1199	901	
	26th May 2011 to 31st May 2011	00-17 23-24	2000	300	1700	1164	536	Revised due to shutdown of 400kV Kahalgaon-Patna D/C
		17-23	2400		2100	1199	901	
WR-ER#	1st May 2011 to 14th May 2011	00-17 23-24	900	300	600	0	600	
		17-23	1000		700		700	
	15th May 2011 to 25th May 2011	00-17 23-24	700	300	400	0	400	Revised due to shutdown of 400kV Malda-Purnea D/C and 400 kV Maithon- Jamshedpur S/c
		17-23	700		400		400	
	26th May 2011 to 31st May 2011	00-17 23-24	700	300	400	0	400	Revised due to shutdown of 400kV Kahalgaon-Patna D/C
		17-23	700		400		400	
ER-WR	1st May 2011 to 31st May 2011	00-24	1100	300	800	528	272	
WR-SR	1st May 2011 to 31st May 2011	00-24	1000	0	1000	0	1000	
SR-WR	1st May 2011 to 31st May 2011	00-24	850	0	850	0	850	
ER-SR#	1st May 2011 to 31st May 2011	00-10 19-24	530	100	430	115	315	
		10-19'	330		230		115	
SR-ER	1st May 2011 to 31st May 2011	00-17 23-24	900	100	800	197	603	
		17-23	1100		1000		803	
ER-NER	1st May 2011 to 31st May 2011	00-17 23-24	470	50	420	242	178	
		17-23	470		420		178	
NER-ER	1st May 2011 to 31st May 2011	00-24	600	100	500	0	500	
S1-S2^	1st May 2011 to 31st May 2011	00-24	4900	100	4800	3100	1700	
Korba (NTPC) - Lanco	1st May 2011 to 31st May 2011	00-24	2750	0	2750	1950	800	

#Revised

- 1) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam
- 2) ^ S1 comprises of AP and Karnataka; S2 comprises of Tamil Nadu, Kerala and Pondicherry

Limiting Constraints

Corridor	Constraint
NR-WR	Over loading of 400kV Bina-Nagda D/C and 400kV Khandwa-Dhule D/C (n-1) contingency of 400kV Bina-Gwalior one circuit leading to over loading of the other circuit of 400 kV
WR-NR	Bina-Gwalior and 400kV Soja-Zerda S/C
NR-ER	(n-1) contingency of 400 kV Kahalgaon-Maithon
ER-NR	(n-1) contingency of 400 kV Farakka-Kahalgaon
WR-ER	(n-1) contingency of 400 kV Farakka-Kahalgaon (n-1) contingency of 220 kV Budhipadar-Tarkera High loading of 220 kV Korba(E)-Raigarh
ER-WR	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni (n-1) contingency of 400kV Rourkela-Raigarh
WR-SR	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore*
SR-WR	(n-1) contingency of Chandrapur-Parli
ER-SR	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area*
SR-ER	(n-1) contingency of 400 kV Farakka-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Farakka-Malda
NER-ER	(n-1) contingency of 400 kV Binaguri-Bongaigaon High Loading of 220 kV BTPS-Agia* High Loading of 220 kV Balipara-Samaguri* High Loading of 400/220 kV 315 MVA ICT at Misa*
SI-S2	(n-1) contingency of 400 kV Hosur-Salem

*Primary constraints

Simultaneous Import Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Comments
ER								
NR#	1st May 2011 to 14th May 2011	00-17	4600	500	4100	1164	2936	400kV Malda-Purnea D/C and 400 kV Maithon- Jamshedpur S/c Revised due to shutdown of 400kV Kahalgaon-Patna D/C
		23-24			4100	1199	2901	
	15th May 2011 to 25th May 2011	00-17	3800	500	3300	1164	2136	
		23-24	4200		3700	1199	2501	
	26th May 2011 to 31st May 2011	00-17	3800	500	3300	1164	2136	
		23-24	4200		3700	1199	2501	
NER	1st May 2011 to 31st May 2011	00-17	470	50	420	242	178	
		23-24			420		178	
		17-23			470			
WR								
SR	1st May 2011 to 31st May 2011	00-10	1530	100	1430	115	1315	
		19-24			1230		1115	
		10-19'			1330			

Simultaneous Export Capability

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)	Margin Available for Short Term Open Access (STOA)	Comments
ER								
NR	1st May 2011 to 31st May 2011	00-24	2300	500	1800	55	1745	
NER	1st May 2011 to 31st May 2011	00-24	600	100	500	0	500	
WR								
SR	1st May 2011 to 31st May 2011	00-17	1750	100	1650	197	1453	
		23-24			1850		1653	
		17-23			1950			

Revised

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Kahalgaon
	Export	(n-1) contingency of 400 kV Kahalgaon-Maithon
NER	Import	High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Farakka-Kahalgaon
	Export	(n-1) contingency of 400 kV Binaguri-Bongaigaon High Loading of 220 kV BTPS-Agia* High Loading of 220 kV Balipara-Samaguri* High Loading of 400/220 kV 315 MVA ICT at Misa*
SR	Import	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C Low Voltage in Chennai Area (n-1) contingency of 400 kV Vijaywada-Nellore
	Export	(n-1) contingency of Chandrapur-Parli (n-1) contingency of 400 kV Farakka-Kahalgaon for peak-period (n-1) contingency of 400 kV Kadappa-Kolar and neyvelli- Sriperumbudur

ASSUMPTIONS IN BASECASE

Sl.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	5020	4050	2245	2060
2	Haryana	4535	3650	2990	2990
3	Rajasthan	5580	5500	3780	3700
4	Delhi	3340	1600	1115	1115
5	Uttar Pradesh	7725	7800	3245	3115
6	Jammu & Kashmir	1425	1300	410	380
7	Uttarakhand	1020	870	415	320
8	Himachal Pradesh	880	530	130	60
9	ISGS			12460	8080
	Total NR	29525	25300	26790	21820
II	EASTERN REGION				
1	West Bengal	4970	4000	4670	4005
2	Jharkhand	795	600	630	370
3	Orissa	2980	2000	2415	1600
4	Bihar	1290	1000	150	150
5	Damodar Valley Corporation	1890	1600	2070	1600
6	Sikkim	45	45	0	0
7	Bhutan	125	125	340	340
8	ISGS			4450	4375
	Total ER	12095	9370	14725	12440
III	WESTERN REGION				
1	Chattisgarh	2510	2030	3150	2920
2	Madhya Pradesh	6345	5690	4560	2660
3	Maharashtra*	13965	11035	11150	9700
4	Gujrat	8810	7240	8960	7700
	Goa	420	300	0	0
	Daman and Diu	265	240	0	0
	Dadra and Nagar Haveli	500	460	0	0
5	ISGS			8545	8230
	Total WR	32815	26995	36365	31210
IV	SOUTHERN REGION				
1	Andhra Pradesh	9625	7350	8740	7190
2	Tamil Nadu	8990	7085	6050	4070
3	Karnataka	6310	4705	4930	2470
4	Kerala	2925	1800	2340	1080
5	ISGS			6030	5800
	Total SR	27850	20940	28090	20610
V	NORTH-EASTERN REGION				
1	Manipur	100	65	0	0
2	Meghalaya	300	240	90	70
3	Mizoram	55	40	0	0
4	Nagaland	80	65	0	0
5	Assam	765	560	390	180
6	Tripura	130	80	85	80
7	Arunachal Pradesh	70	55	0	0
8	ISGS			880	370
	Total NER	1500	1105	1445	700
	Total All India	103785	83710	107415	86780

* Assumptions are corresponding to the basecase and not the limiting case