

**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 31st May 2011	00-17 23-24	2800	300	2500	1164	1336	
		17-23	3000		2700	1199	1501	
WR-ER	1st May 2011 to 31st May 2011	00-17 23-24	900	300	600	0	600	
		17-23	1000		700		700	
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
<b>NR-WR</b>	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
<b>WR-NR</b>	Bina-Gwalior and 400kV Soja-Zerda S/C
<b>NR-ER</b>	(n-1) contingency of 400 kV Kahalgaon-Maithon
<b>ER-NR</b>	(n-1) contingency of 400 kV Farakka-Malda
<b>WR-ER</b>	(n-1) contingency of 400 kV Farakka-Malda (n-1) contingency of 220 kV Budhipadar-Tarkera High loading of 220 kV Korba(E)-Raigarh
<b>ER-WR</b>	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
<b>WR-SR</b>	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore*
<b>SR-WR</b>	(n-1) contingency of Chandrapur-Parli
<b>ER-SR</b>	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area*
<b>SR-ER</b>	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
<b>ER-NER</b>	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
<b>NER-ER</b>	(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*
<b>SI-S2</b>	(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 31st May 2011	00-17	4600	500	4100	1164	2936	
		23-24			4100		1199	
NER	1st May 2011 to 31st May 2011	00-17	470	50	420	242	178	
		23-24			420		178	
WR		00-17						
		23-24						
SR#	1st May 2011 to 31st May 2011	00-10	1530	100	1430	115	1315	Revised due to operation of Talcher-Kolar at 2200 MW from 00-10 and 19-24 hrs
		19-24	1330		1230		1115	
		10-19'						

### 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	1950		1850		1653	

# Revised

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Malda
	<b>Export</b>	(n-1) contingency of 400 kV Kahalgaon-Maithon
<b>NER</b>	<b>Import</b>	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
	<b>Export</b>	(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*
<b>SR</b>	<b>Import</b>	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
	<b>Export</b>	(n-1) contingency of Chandrapur-Parli (n-1) contingency of 400 kV Farakka-Malda 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)
<b>I</b>	<b>NORTHERN REGION</b>				
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
	<b>Total NR</b>	<b>29525</b>	<b>25300</b>	<b>26790</b>	<b>21820</b>
<b>II</b>	<b>EASTERN REGION</b>				
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
	<b>Total ER</b>	<b>12095</b>	<b>9370</b>	<b>14725</b>	<b>12440</b>
<b>III</b>	<b>WESTERN REGION</b>				
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
	<b>Total WR</b>	<b>32815</b>	<b>26995</b>	<b>36365</b>	<b>31210</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
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
	<b>Total SR</b>	<b>27850</b>	<b>20940</b>	<b>28090</b>	<b>20610</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
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
	<b>Total NER</b>	<b>1500</b>	<b>1105</b>	<b>1445</b>	<b>700</b>
	<b>Total All India</b>	<b>103785</b>	<b>83710</b>	<b>107415</b>	<b>86780</b>

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