

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

Issue Date: 01/04/2011

Issue Time: 1800 hrs

Revision No. 4

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)		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 April 2011 to 30th April 2011	00-24	1500	200	1300	55	1245	
WR-NR	1st April 2011 to 30th April 2011	00-24	1900	200	1700	0	1700	
NR-ER	1st April 2011 to 30th April 2011	00-24	850	200	650	0	650	
ER-NR	1st April 2011 to 30th April 2011	00-17 23-24	2800	300	2500	979	1521	
		17-23	3000		2700		1721	
WR-ER	1st April 2011 to 30th April 2011	00-17 23-24	900	300	600	0	600	
		17-23	1000		700		700	
ER-WR	1st April 2011 to 30th April 2011	00-24	1100	300	800	435	365	
WR-SR	1st April 2011 to 26th April 2011	00-24	1000	0	1000	0	1000	
	27th April 2011 to 31st April 2011	00-24	800	0	800	0	800	
SR-WR	1st April 2011 to 30th April 2011	00-24	850	0	850	0	850	
ER-SR#	1st April 2011	00-05 10-19	330	100	230	117	113	Revised due to operation of HVDC Talcher-Kolar upto 2500 MW during 19-24 hrs and at 2200 MW during 00-05 hrs
		05-10 19-24	830		730		613	
	2nd April 2011 to 30th April 2011	00-05	530	100	430	117	313	
		10-19	330		230		113	
		05-10 19-24	830		730		613	
SR-ER	1st April 2011 to 30th April 2011	00-17 23-24	900	100	800	197	603	
		17-23	1100		1000		803	
ER-NER	1st April 2011 to 30th April 2011	00-17 23-24	470	50	420	198	222	
		17-23	470		420		200	
NER-ER	1st April 2011 to 30th April 2011	00-24	600	100	500	0	500	
S1-S2^	1st April 2011 to 30th April 2011	00-24	4900	100	4800	3100	1700	
Korba (NTPC) - Lanco	1st April 2011 to 30th April 2011	00-24	2750	0	2750	1950	800	

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>	Link Capacity of HVDC Bhadrawati B/B (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 April 2011 to 30th April 2011	00-24	4500	500	4000	979	3021	
NER	1st April 2011 to 30th April 2011	00-17	470	50	420	198	222	
		23-24						
		17-23			420	220	200	
WR								
SR#	1st April 2011	00-05	1330	100	1230	117	1113	Revised due to operation of Talcher-Kolar upto 2500 MW during 05-10 and 19-24 hrs
		10-19						
		05-10						
	2nd April 2011 to 26th April 2011	19-24	1830		1730		1613	
		00-05	1530		1430		1313	
		10-19	1330		1230		1113	
	27th April 2011 to 30th April 2011	05-10	1830		1730		1613	
		19-24	1830		1230		1113	
		00-05	1330		1030		913	
		10-19	1130		1530		1413	
		05-10	1630					
		19-24						

# Revised

**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 April 2011 to 30th April 2011	00-24	2300	500	1800	55	1745	
NER	1st April 2011 to 30th April 2011	00-24	600	100	500	0	500	
WR								
SR	1st April 2011 to 30th April 2011	00-17	1750	100	1650	197	1453	
		23-24						
		17-23						

## 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-Malda*
	<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>	Link Capacity of HVDC Bhadrawati B/B 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	5130	4270	2150	2150
2	Haryana	4660	3920	2745	2745
3	Rajasthan	4960	5280	2810	2810
4	Delhi	3920	3815	1200	1200
5	Uttar Pradesh	8120	8010	3220	3260
6	Jammu & Kashmir	1670	1350	470	450
7	Uttarakhand	1050	850	450	400
8	Himachal Pradesh	1000	800	240	180
9	Chandigarh	235	175	0	0
10	ISGS			14620	11890
	<b>Total NR</b>	<b>30745</b>	<b>28470</b>	<b>27905</b>	<b>25085</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	5400	4650	5020	4230
2	Jharkhand	900	650	330	300
3	Orissa	2900	1950	2160	1320
4	Bihar	1300	1100	145	145
5	Damodar Valley Corporation	2100	1750	2110	2050
6	Sikkim	60	60	0	0
7	Bhutan	125	125	240	170
8	ISGS			4440	4110
	<b>Total ER</b>	<b>12785</b>	<b>10285</b>	<b>14445</b>	<b>12325</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2660	2110	3230	3130
2	Madhya Pradesh	6595	4730	4130	2720
3	Maharashtra*	14990	13090	13120	10110
4	Gujrat	9230	7145	9960	8400
5	Goa	480	300	0	0
6	Daman and Diu	300	200	0	0
7	Dadra and Nagar Haveli	560	450	0	0
8	ISGS			9430	8840
	<b>Total WR</b>	<b>34815</b>	<b>28025</b>	<b>39870</b>	<b>33200</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10450	7500	9770	7220
2	Tamil Nadu	10320	7950	6040	4270
3	Karnataka	6575	5010	6170	2700
4	Kerala	2990	1760	2290	1430
5	Pondy	220	180		
6	Goa	90	60		
7	ISGS			6565	6370
	<b>Total SR</b>	<b>30645</b>	<b>22460</b>	<b>30835</b>	<b>21990</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	80	65	0	0
2	Meghalaya	190	120	55	10
3	Mizoram	70	30	0	0
4	Nagaland	80	45	10	5
5	Assam	800	560	230	200
6	Tripura	120	75	90	80
7	Arunachal Pradesh	65	45	0	0
8	ISGS			765	510
	<b>Total NER</b>	<b>1405</b>	<b>940</b>	<b>1150</b>	<b>805</b>
	<b>Total All India</b>	<b>110395</b>	<b>90180</b>	<b>114205</b>	<b>93405</b>