

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

Issue Date: 23/08/2011

Issue Time: 1200 hrs

Revision No. 6

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 August 2011 to 31st August 2011	00-24	1500	200	1300	55	1245	
WR-NR	1st August 2011 to 2nd August 2011	00-24	1900	200	1700	0	1700	
	3rd August 2011 to 31st August 2011		2000		1800		1800	
NR-ER	1st August 2011 to 31st August 2011	00-24	850	200	650	0	650	
ER-NR	1st August 2011 to 15th August 2011	00-17	4000	300	3700	1027	2673	
		17-23			4200		3900	2873
	16th August 2011 to 31st August 2011	00-24	3500	300	3200	1027	2173	
WR-ER#	1st August 2011 to 15th August 2011	00-24	1700	300	1400	0	1400	
	16th August 2011 to 22nd August 2011	00-24	1000	300	700	0	700	
	23rd August 2011 to 31st August 2011	00-24	1200	300	900	0	900	Revised due to change in load-generation scenario
ER-WR	1st August 2011 to 31st August 2011	00-24	1100	300	800	451	349	
WR-SR	1st August 2011 to 31st August 2011	00-24	1000	0	1000	0	1000	
SR-WR	1st August 2011 to 31st August 2011	00-24	850	0	850	0	850	
ER-SR	1st August 2011 to 5th August 2011	00-24	330	100	230	113	117	
	6th August 2011 to 31st August 2011	00-24	770	100	670	113	557	
SR-ER	1st August 2011 to 31st August 2011	00-17	800	100	700	197	503	
		17-23			900		800	603
ER-NER	1st August 2011 to 31st August 2011	00-24	400	50	350	220	130	
NER-ER	1st August 2011 to 31st August 2011	00-24	500	100	400	0	400	
S1-S2^	1st August 2011 to 31st August 2011	00-24	4900	100	4800	3100	1700	
Import of Punjab	1st August 2011 to 31st August 2011	00-24	4800	300	4500	2850	1650	

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

# Revised

## Limiting Constraints

Corridor	Constraint
NR-WR	Over loading of 400kV Bina-Nagda D/C and 400kV Khandwa-Dhule D/C
WR-NR	(n-1) contingency of 400kV Bina-Gwalior one circuit leading to over loading of the other circuit of 400 kV 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
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
NER-ER	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
S1-S2	(n-1) contingency of 400 kV Hosur-Salem
<b>Import of Punjab</b>	High Loading of ICTs at Moga and Patiala and Low Voltages at large number of buses in Punjab system

\*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
<b>ER</b>								
<b>NR#</b>	1st August 2011 to 15th August 2011	00-17 23-24	5600	500	5100	1027	4073	
		17-23	5800		5300		4273	
	16th August 2011 to 31st August	00-24	5300	500	4800	1027	3773	
<b>NER</b>	1st August 2011 to 31st August 2011	00-24	400	50	350	220	130	
<b>WR</b>								
<b>SR</b>	1st August 2011 to 5th August 2011	00-24	1330	100	1230	113	1117	
	6th August 2011 to 31st August 2011	00-24	1770	100	1670	113	1557	

**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
<b>ER</b>								
<b>NR</b>	1st August 2011 to 31st August 2011	00-24	2300	500	1800	55	1745	
<b>NER</b>	1st August 2011 to 31st August 2011	00-24	500	100	400	0	400	
<b>WR</b>								
<b>SR</b>	1st August 2011 to 31st August 2011	00-17 23-24	1650	100	1550	197	1353	
		17-23	1750		1650		1453	

# Revised

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Kahalgaon
	<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>	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-Bhadrawati 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-Kahalgaon for peak-period (n-1) contingency of 400 kV Kadappa-Kolar and neyveli- 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	6538	6776	2339	2643
2	Haryana	5078	4875	2963	2963
3	Rajasthan	5614	6682	3024	3025
4	Delhi	4349	3468	1330	1330
5	Uttar Pradesh	8905	9507	3765	4081
6	Jammu & Kashmir	1589	1530	612	593
7	Uttarakhand	1461	1122	904	533
8	Himachal Pradesh	1023	989	744	729
9	Chandigarh	218	169	0	0
10	ISGS			16484	15253
	<b>Total NR</b>	<b>34775</b>	<b>35118</b>	<b>32165</b>	<b>31150</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	5565	4308	4417	3742
2	Jharkhand	949	770	390	390
3	Orissa	3202	2165	2507	2092
4	Bihar	1473	1224	130	130
5	Damodar Valley Corporation	2066	1815	1551	1551
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			5753	5672
	<b>Total ER</b>	<b>13425</b>	<b>10452</b>	<b>16148</b>	<b>14977</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2676	1700	2615	2474
2	Madhya Pradesh	4173	3978	3027	1485
3	Maharashtra	13126	10914	10581	8159
4	Gujarat	7945	6118	7324	6393
5	Goa	313	240	0	0
6	Daman and Diu	218	204	0	0
7	Dadra and Nagar Haveli	467	459	0	0
8	ISGS			8303	7883
	<b>Total WR</b>	<b>28918</b>	<b>23613</b>	<b>31850</b>	<b>26394</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10551	7475	10195	8125
2	Tamil Nadu	11205	8885	8255	5972
3	Karnataka	7058	5740	5439	2730
4	Kerala	2921	1950	1772	1452
5	Pondy	220	180		
6	Goa	90	60		
7	ISGS			7240	6778
	<b>Total SR</b>	<b>32045</b>	<b>24290</b>	<b>32901</b>	<b>25057</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	99	70	0	0
2	Meghalaya	248	173	120	70
3	Mizoram	70	51	0	0
4	Nagaland	80	61	15	15
5	Assam	944	714	280	262
6	Tripura	169	102	105	100
7	Arunachal Pradesh	80	61	0	0
8	ISGS			1136	995
	<b>Total NER</b>	<b>1690</b>	<b>1232</b>	<b>1656</b>	<b>1442</b>
	<b>Total All India</b>	<b>110853</b>	<b>94705</b>	<b>114720</b>	<b>99020</b>