

**National Load Despatch Centre  
Total Transfer Capability for July 2012**

Issue Date: 27/07/2012

Issue Time: 1100 hrs

Revision No. 12

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	27th July 2012	00-08'	1900	200	1700	286	1414	
		08-24'	1600		1400		1114	
	28th July 2012	00-24	1600		1400		1114	
		29th July 2012	00-19		1600		1400	
			19-24		1900		1700	
	WR-NR	27th July 2012	00-08'		2400		200	
08-24'			2000	1800	1540			
28th July 2012		00-24	2000	1800	1540			
		29th July 2012	00-19	2000	1800	1540		
			19-24	2400	2200	1940		
NR-ER		11th July 2012 to 31st July 2012	00-17 23-24	800	200	600		0
	17-23		900	700		700		
ER-NR	11th July 2012 to 31st July 2012	00-24	4500	300	4200	1032	3168	
WR-ER	11th July 2012 to 31st July 2012	00-17 23-24	900	300	600	0	600	
		17-23	1000		700		700	
ER-WR	11th July 2012 to 31st July 2012	00-24	1000	300	700	565	135	
WR-SR	11th July 2012 to 31st July 2012	00-24	1000	0	1000	992	8	
SR-WR	11th July 2012 to 31st July 2012	00-24	900	0	900	0	900	
ER-SR#	27th July 2012 to 31st July 2012	00-05, 10 19	730	0	730	170	560	HVDC Talcher-Kolar bipole capacity increased from 1800 MW to 2000 MW from 13-17 hrs. Revised planned schedule of Talcher Stage II Unit # 5
		05-10, 19 24	900		900		730	
SR-ER	11th July 2012 to 31st July 2012	00-17 23-24	700	0	700	148	552	
		17-23	800		800		652	
ER-NER	11th July 2012 to 13th July 2012	00-17 23-24	600	35	565	200	365	
		17-23	600		565		365	
NER-ER	14th July 2012 to 31st July 2012	00-24	600	100	565	0	365	
		11th July 2012 to 13th July 2012	00-17 23-24		550		450	
	17-23		550		450		450	
	14th July 2012 to 31st July 2012	00-24	550	450	450	450		
S1-S2	11th July 2012 to 31st July 2012	00-10	5800	100	5700	3800	1900	
		10-24'	5500		5400		1600	
Import of Punjab	11th July 2012 to 31st July 2012	00-24	5400	300	5100	3243	1857	
JPL Complex	11th July 2012 to 31st July 2012	00-24	1030	0	1030	0	1030	
Import TTC for DD&DNH	11th July 2012 to 31st July 2012	00-24	980	0	980	LTA and MTOA as per ex-pp schedule		

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>	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
<b>WR-NR</b>	Low voltage at Gwalior on outage of 400 kV Bina-Gwalior
<b>NR-ER</b>	(n-1) contingency of 400 kV Pusauli-Biharsharif
<b>ER-NR</b>	(n-1) contingency of 400 kV Purnea-Muzaffarpur
<b>WR-ER</b>	(n-1) contingency of 400 kV Maithon-Kahalgaon Highloading of 220kV 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 Roerkela-Jamshedpur
<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* (n-1) contingency of 400 kV Talcher-Rourkela* Low Voltage in Chennai Area*
<b>SR-ER</b>	(n-1) contingency of 400 kV Maithon-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
<b>ER-NER</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 Balipara*
<b>NER-ER</b>	(n-1) contingency of 400 kV Purnea-Muzaffarpur High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri*
<b>S1-S2</b>	(n-1) contingency of 400 kV Hosur-Salem
<b>Import of Punjab</b>	(n-1) contingency of 400/220 kV ICT at Moga Low voltage in Punjab 220 kV 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
ER								
NR	11th July 2012 to 31st July 2012	00-24	6200	500	5700	1032	4668	
NER	11th July 2012 to 13th July 2012	00-17	600	35	565	200	365	
		23-24	600		565		365	
	14th July 2012 to 31st July 2012	00-24	600	35	565	200	365	
WR								
SR#	24th July 2012 to 31st July 2012	00-05, 10-19	1730	0	1730	1162	568	HVDC Talcher-Kolar bipole capacity increased from 1800 MW to 2000 MW from 13-17 hrs. Revised planned schedule of Talcher Stage II Unit # 5
		05-10, 19-24	1900		1900		738	

**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	11th July 2012 to 31st July 2012	00-24	2300	500	1800	286	1514	
NER	11th July 2012 to 13th July 2012	00-17	550	100	450	0	450	
		23-24	550		450		450	
	14th July 2012 to 31st July 2012	00-24	550		450		450	
WR								
SR	11th July 2012 to 31st July 2012	00-17	1600	0	1600	148	1452	
		23-24	1700		1700		1552	

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Purnea Muzaffarpur* Low voltage in Punjab, Haryana, Western UP Low voltage at Bina on outage of 400 kV Bina-Gwalior
	<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 Balipara* (n-1) contingency of 400 kV Binaguri-Bongaigaon
	<b>Export</b>	High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri* (n-1) contingency of 400 kV Purnea-Muzaffarpur*
<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 Maithon Kahalgaon (n-1) contingency of 400 kV Kadappa-Kolar and neyvelli- Sriperumbudur

## ASSUMPTIONS IN BASECASE

S.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	7331	6200	2784	2484
2	Haryana	5337	5469	3043	3043
3	Rajasthan	5900	6710	3403	3343
4	Delhi	4453	4000	1416	1416
5	Uttar Pradesh	9500	10000	4614	4636
6	Jammu & Kashmir	2073	1925	668	675
7	Uttarakhand	1479	1100	881	825
8	Himachal Pradesh	1030	970	745	745
9	Chandigarh	288	237	0	0
10	ISGS			17938	16840
	<b>Total NR</b>	<b>37391</b>	<b>36611</b>	<b>35491</b>	<b>34005</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	5700	4750	4617	3942
2	Jharkhand	850	700	390	390
3	Orissa	3150	2250	2707	2092
4	Bihar	1700	1400	130	130
5	Damodar Valley Corporation	2000	1800	1551	1551
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			5770	5150
	<b>Total ER</b>	<b>13570</b>	<b>11070</b>	<b>16565</b>	<b>14655</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2442	2025	3048	2920
2	Madhya Pradesh	4769	4546	3448	2663
3	Maharashtra	15064	13390	11287	8946
4	Gujarat	10598	6155	8246	6944
5	Goa	310	334	0	0
6	Daman and Diu	262	278	0	0
7	Dadra and Nagar Haveli	575	566	0	0
8	ISGS			11144	10493
	<b>Total WR</b>	<b>34021</b>	<b>27294</b>	<b>37173</b>	<b>31966</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	9350	8496	6558	5538
2	Tamil Nadu	10050	9973	5125	4335
3	Karnataka	6500	4450	4082	3198
4	Kerala	2500	1610	1892	1081
5	Pondy	286	200		
6	Goa	60	60		
7	ISGS			9743	9057
	<b>Total SR</b>	<b>28746</b>	<b>24789</b>	<b>27400</b>	<b>23209</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	120	70	0	0
2	Meghalaya	258	180	120	70
3	Mizoram	70	40	0	0
4	Nagaland	70	60	15	15
5	Assam	950	700	240	220
6	Tripura	180	100	105	100
7	Arunachal Pradesh	70	55	0	0
8	ISGS			1292	682
	<b>Total NER</b>	<b>1718</b>	<b>1205</b>	<b>1772</b>	<b>1087</b>
	<b>Total All India</b>	<b>115446</b>	<b>100969</b>	<b>118401</b>	<b>104922</b>