

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

Issue Date: 27/06/2012

Issue Time: 1030 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 July 2012 to 31st July 2012	00-24	1900	200	1700	286	1414	
WR-NR	1st July 2012 to 31st July 2012	00-24	2400	200	2200	260	1940	
NR-ER	1st July 2012 to 31st July 2012	00-17	800	200	600	0	600	
		23-24						
		17-23	900		700		700	
ER-NR	1st July 2012 to 31st July 2012	00-24	4000	300	3700	1032	2668	
WR-ER	1st July 2012 to 31st July 2012	00-17	900	300	600	0	600	
		23-24						
		17-23	1000		700		700	
ER-WR	1st July 2012 to 31st July 2012	00-24	1000	300	700	565	135	
WR-SR	1st July 2012 to 31st July 2012	00-24	1000	0	1000	761	239	
SR-WR	1st June 2012 to 30th June 2012	00-24	900	0	900	0	900	
ER-SR	1st July 2012 to 31st July 2012	00-05, 10-13, 17-19	1170	0	1170	170	1000	
		05-10, 19-24	1200		1200		1030	
		13-17	970		970		800	
SR-ER	1st July 2012 to 31st July 2012	00-24	800	0	800	148	652	
ER-NER#	1st July 2012 to 8th July 2012	00-08	600	35	565	200	365	Revised due to shutdown of 220 kV Agia-Sarusajai D/C
		17-24			435		235	
	9th July 2012 to 31st July 2012	00-24	600	35	565	200	365	
NER-ER#	1st July 2012 to 8th July 2012	00-08	570	100	470	0	470	Revised due to shutdown of 220 kV Agia-Sarusajai D/C
		17-24			365		365	
		08-17'	465					
	9th July 2012 to 31st July 2012	00-24	570		470		470	
S1-S2	1st July 2012 to 31st July 2012	00-10	5800	100	5700	3800	1900	
		10-24'	5500		5400		1600	
Import of Punjab	1st July 2012 to 31st July 2012	00-24	5400	300	5100	3243	1857	
JPL Complex	1st July 2012 to 31st July 2012	00-24	1030	0	1030	0	1030	
Import TTC for DD&DNH	1st 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
NR-WR	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
WR-NR	Low voltage at Bina on outage of 400 kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1) contingency of 400 kV Purnea-Muzaffarpur
WR-ER	(n-1) contingency of 400 kV Maithon-Kahalgaon Highloading of 220kV 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 Roerkela-Jamshedpur
WR-SR	Link capacity of HVDC Bhadrawati B/B (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* (n-1) contingency of 400 kV Talcher-Rourkela* Low Voltage in Chennai Area*
SR-ER	(n-1) contingency of 400 kV Maithon-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	(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 and Balipara*
NER-ER	(n-1) contingency of 400 kV Purnea-Muzaffarpur 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
Import of Punjab	(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	1st July 2012 to 31st July 2012	00-24	6200	500	5700	1032	4668	
NER#	1st July 2012 to 8th July 2012	00-08 17-24	600	35	565	200	365	Revised due to shutdown of 220 kV Agia-Sarusajai D/C
		08-17'	470		435		235	
	9th July 2012 to 31st July 2012	00-24	600	35	565	200	365	
WR								
SR	1st July 2012 to 31st July 2012	00-05, 10-13, 17-19	2170	0	2170	170	2000	
		05-10, 19-24	2200		2200		2030	
		13-17	1970		1970		1800	

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 July 2012 to 31st July 2012	00-24	2300	500	1800	286	1514	
NER	1st July 2012 to 8th July 2012	00-08 17-24	570	100	470	0	470	Revised due to shutdown of 220 kV Agia-Sarusajai D/C
		08-17'	465		365		365	
	9th July 2012 to 31st July 2012	00-24	570		470		470	
WR								
SR	1st July 2012 to 31st July 2012	00-24	1700	0	1700	148	1552	

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Purnea Muzaffarpur* Low voltage at Bina on outage of 400 kV Bina-Gwalior
	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 and Balipara* (n-1) contingency of 400 kV Binaguri-Bongaigaon
	Export	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 Purnea-Muzaffarpur*
SR	Import	Link capacity of HVDC Bhadrawati B/B 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 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)
I	NORTHERN REGION				
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
	Total NR	37391	36611	35491	34005
II	EASTERN REGION				
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
	Total ER	13570	11070	16565	14655
III	WESTERN REGION				
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
	Total WR	34021	27294	37173	31966
IV	SOUTHERN REGION				
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
	Total SR	28746	24789	27400	23209
V	NORTH-EASTERN REGION				
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
	Total NER	1718	1205	1772	1087
	Total All India	115446	100969	118401	104922