

**National Load Despatch Centre
Total Transfer Capability for July 2010**

Issue Date: 18.06.2010

Issue Time: 1700hrs

Revision No. 0

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Scheduling Limit	Long Term Access (LTA)	Available Transfer Capability (ATC) for STOA	Remarks
NR-WR	1st July 2010 to 31st July 2010	00-24	1500	200	1300	55	1245	
WR-NR	1st July 2010 to 31st July 2010	00-24	1800	200	1600	0	1600	
NR-ER	1st July 2010 to 31st July 2010	00-17 23-24	300	200	100	0	100	
		17-23	600		400	0	400	
ER-NR	1st July 2010 to 31st July 2010	00-17 23-24	4000	300	3700	1059	2641	
		17-23	4000		3700	1124	2576	
WR-ER	1st July 2010 to 31st July 2010	00-24	1000	300	700	0	700	
ER-WR	1st July 2010 to 31st July 2010	00-18 22-24	1700	500	1200	434	766	
		18-22	1600		1100	433	667	
WR-SR	1st July 2010 to 31st July 2010	00-24	1000	100	900	0	900	
SR-WR	1st July 2010 to 31st July 2010	00-24	1000	100	900	0	900	
ER-SR	1st July 2010 to 31st July 2010	00-06 22-24	3000	100	2900	1823	1077	
		06'-22	2700	100	2600		777	
SR-ER	1st July 2010 to 31st July 2010	00-17 23-24	1100	50	1050	0	1050	
		17-23	1200		1150	0	1150	
ER-NER	1st July 2010 to 31st July 2010	00-17 23-24	400	50	350	213	137	
		17-23	400		350	192	158	
NER-ER	1st July 2010 to 31st July 2010	00-17 23-24	500	100	400	0	400	
		17-23	600		500		500	

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 line Over loading of 400kV Soja-Zerda S/C
NR-ER	(n-1) contingency of 400 kV Kahalgaon-Maithon (n-1) contingency of 400 kV Jamshedpur-Rourkela
ER-NR	(n-1) contingency of 400 kV Farakka-Kahalgaon
WR-ER	(n-1) contingency of 220 kV Budhipadar-Tarkera
ER-WR	(n-1) contingency of 400kV Raigarh-Rourkela
WR-SR	(n-1) contingency of Raipur-Bhadravati
SR-WR	(n-1) contingency of Chandrapur-Parli
ER-SR	(n-1) contingency of 400 kV Vijaywada-Nellore
SR-ER	(n-1) contingency of 400 kV Talcher-Rourkela
ER-NER	(n-1) contingency of 400 kV Binaguri-Bongaigaon (n-1) contingency of 220 kV Dalkhola-Purnea 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 (n-1) contingency of 400 kV Purnea-Muzaffarpur* (n-1) contingency of 220 kV Binaguri-NJP

* Primary Constraint

Simultaneous Import Capability

Corridor	Date	Time Period	Total Transfer Capability (TTC)	Reliability Margin	Scheduling Limit	Long Term Access (LTA)	Available Transfer Capability (ATC)	Remarks
ER								
NR	1st July 2010 to 31st July 2010	00-17 23-24	5000	500	4500	1059	3441	
		17-23	5000	500	4500	1124	3376	
NER	1st July 2010 to 31st July 2010	00-17 23-24	400	100	300	213	87	
		17-23	400		300	192	108	
WR								
SR	1st July 2010 to 31st July 2010	00-06 22-24	4000	100	3900	1823	2077	
		06'-22	3700	100	3600	1823	1777	

Simultaneous Export Capability

Corridor	Date	Time Period	Total Transfer Capability (TTC)	Reliability Margin	Scheduling Limit	Long Term Access (LTA)	Available Transfer Capability (ATC)	Remarks
ER								
NR	1st July 2010 to 31st July 2010	00-24					1500	
NER	1st July 2010 to 31st July 2010	00-17	500	100	400	0	400	
		23-24	600		500		500	
WR								
SR	1st July 2010 to 31st July 2010	00-17	2100	100	2000	0	2000	
		23-24	2200		2100	0	2100	

Limiting Constraints

NR	Import	Low Voltage in western UP, Punjab, Haryana subsequent to tripping of one pole of Balia-Bhiwadi HVDC bipole
		Low Voltage in western UP, Punjab, Haryana subsequent to tripping of one pole of Rihand-Dadri HVDC bipole
		(n-1) contingency of 400kV Bina-Gwalior line
		Over loading of 400kV Soja-Zerda S/C
	Export	Low Voltage in NR system
		Overloading of 400 kV Agra-Gwalior and 220 kV Modak-Badod
NER	Import	(n-1) contingency of 400 kV Binaguri-Bongaigaon
		(n-1) contingency of 220 kV Dalkhola-Purnea
		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*
	Export	High Loading of 220 kV BTPS-Agia
		High Loading of 220 kV Balipara-Samaguri
		(n-1) contingency of 400 kV Purnea-Muzaffarpur*
		(n-1) contingency of 220 kV Binaguri-NJP
SR	Import	(n-1) contingency of 400 kV Vijaywada-Nellore
		(n-1) contingency of 400 kV Hosur-Salem
		(n-1) contingency of 400 kV Raipur-Bhadravati
	Export	(n-1) contingency of 400 kV Chandrapur-Parli
		(n-1) contingency of 400 kV Talcher-Rourkela

* Primary Constraint

ASSUMPTIONS IN BASECASE

Sl.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	6400	6183	2734	2790
2	Haryana	4230	4425	2450	2490
3	Rajasthan	4500	4720	2075	2075
4	Delhi	4000	4000	1131	1131
5	Uttar Pradesh	7815	8094	3479	3479
6	Jammu & Kashmir	1050	1241	610	597
7	Uttarakhand	1000	1000	786	740
8	Himachal Pradesh	900	900	813	738
9	ISGS			13770	12805
	Total NR	29895	30563	27848	26845
II	EASTERN REGION				
1	West Bengal	4300	3500	3965	3130
2	Jharkhand	950	750	580	520
3	Orissa	3100	2200	2085	1480
4	Bihar	1600	1200	150	150
5	Damodar Valley Corporation	2160	1750	2085	1945
6	Sikkim	60	40	0	0
7	Bhutan	115	115	1386	1386
8	ISGS			4475	4475
	Total ER	12285	9555	14726	13086
III	WESTERN REGION				
1	Chattisgarh	2000	1900	2130	1610
2	Madhya Pradesh	5700	4290	3542	3030
3	Maharashtra	14185	11150	10330	8850
4	Gujrat	8557	6192	7241	5455
5	ISGS			8883	7649
	Total WR	30442	23532	32126	26594
IV	SOUTHERN REGION				
1	Andhra Pradesh	8175	7990	8046	8046
2	Tamil Nadu	8766	8578	4674	4674
3	Karnataka	5202	5059	4494	4194
4	Kerala	2280	2270	1468	1278
5	ISGS			6594	6124
	Total SR	24423	23897	25276	24316
V	NORTH-EASTERN REGION				
1	Manipur	70	57	0	0
2	Meghalaya	161	173	92	0
3	Mizoram	40	30	0	0
4	Nagaland	50	43	16	0
5	Assam	560	424	291	246
6	Tripura	81	85	70	65
7	Arunachal Pradesh	47	47	0	0
8	ISGS			1148	828
	Total NER	1009	859	1617	1139
	Total All India	98054	88406	101593	91980