

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

Issue Date: 24/08/2012

Issue Time: 1930 hrs

Revision No. 14

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	5th August 2012 to 31st August 2012	00-24	1000	200	800	286	514			
WR-NR	15th August 2012 to 31st August 2012	00-24	1500	200	1300	260	1040			
NR-ER	1st August 2012 to 31st August 2012	00-17 23-24	800	200	600	0	600			
		17-23	900		700		700			
ER-NR	19th August 2012 to 31st August 2012	00-24	3600	200	3400	1158	2242			
WR-ER#	27th August 2012 to 30th August 2012	00-09	1000	300	700	0	700	Shut down of 400 kV Maithon-Kahalgaon-I/II		
		09-24'	850		550	0	550			
	31st August 2012	00-24	1000		700	0	700			
ER-WR	1st August 2012 to 31st August 2012	00-24	1000	300	700	650	50			
WR-SR	26th August 2012	0530-1900	500	0	500	992	-492	Shutdown of 400kV Ramagundam-Hyderabad Ckt-3&4		
		00-0530 19-24	1000		1000	992	8			
	27th August 2012 to 31st August 2012	00-24	1000		0	1000	992		8	
SR-WR	1st August 2012 to 31st August 2012	00-24	1000	0	1000	0	1000			
ER-SR	1st August 2012 to 2nd August 2012	00-05, 10-19	730	0	730	170	560			
		05-10, 19-24	900		900		730			
	3rd August 2012 to 31st August 2012	00-05, 10-19	750		750		580			
		05-10, 19-24	750		750		580			
SR-ER	1st August 2012 to 2nd August 2012	00-17 23-24	800	0	800	197	603			
		17-23	900		900		703			
	3rd August 2012 to 31st August 2012	00-17 23-24	800		800	148	652			
		17-23	900		900	752				
ER-NER	24th August 2012	00-08 15-24	440	35	405	200	205			
		08-15'	390		355	200	155			
	25th August 2012 to 31st August 2012	00-17 23-24	440	35	405	135	270			
		17-23	440		405	138	267			
NER-ER	25th August 2012	00-0930 16-17 23-24	550	100	450	0	450	Shutdown of 400 kV Binaguri-Purnea Ckt-1		
		0930-16 17-23	300 310		200 210		200 210			
		26th August 2012 to 31st August 2012	00-17 23-24		550		100		450	0
	17-23	310	210	210						
	S1-S2	1st August 2012 to 31st August 2012	00-24	4600	100	4500	3300		1200	
			Import of Punjab	1st July 2012 to 31st July 2012	00-24	5400	300		5100	3243

<b>JPL Complex</b>	1st August 2012 to 31st August 2012	00-24	1030	0	1030	0	1030	
<b>Import TTC for DD&amp;DNH</b>	1st August 2012 to 31st August 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>	High loading of 400 kV Bina-Gwalior
<b>NR-ER</b>	(n-1) contingency of 400 kV Pusauli-Biharsharif
<b>ER-NR</b>	High loading of 400 kV Kahalgaon-Biharsharif
<b>WR-ER</b>	(n-1) contingency of 400 kV Maithon-Kahalgaon
<b>ER-WR</b>	Link capacity of HVDC Bhadrawati B/B (n-1) contingency of 400kV Rourkela-Jamshedpur
<b>WR-SR</b>	HVDC Bhadrawati B/B link capacity* (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 High loading of Rourkela-Talcher* 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 Ckt-I* High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa
<b>NER-ER</b>	(n-1) contingency of 400 kV Purnea-Muzaffarpur and 400 kV Binaguri-Bongaigaon Ckt-I* High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa*
<b>S1-S2</b>	High loading 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	19th August 2012 to 31st August 2012	00-24	5100	500	4600	1418	3182	
NER	24th August 2012	00-08 15-24	440	35	405	200	205	
		08-15'	390		355	200	155	
	25th August 2012 to 31st August 2012	00-17 23-24	440	35	405	135	270	
		17-23	440			138	267	
WR								
SR	26th August 2012	0530-1900	1250	0	1250	1162	88	Shutdown of 400kV Ramagundam-Hyderabad Ckt-3&4
		00-0530	1750		1750		588	
	27th August 2012 to 31st August 2012	00-05, 10-19	1750		1750		588	
		05-10, 19-24	1750		1750		588	

**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 August 2012 to 31st August 2012	00-24	1500	500	1000	286	714		
NER#	25th August 2012	00-0930	550	100	450	0	450	Shutdown of 400 kV Binaguri-Purnea Ckt-1	
		16-17 23-24							200
		0930-16							210
	26th August 2012 to 31st August 2012	17-23	310	100	450	0	450		
		00-17 23-24	210						
		17-23	310						
WR									
SR	1st August 2012 to 2nd August 2012	00-17 23-24	1800	0	1800	197	1603		
		17-23	1900		1900		1703		
	3rd August 2012 to 31st August 2012	00-17 23-24	1800		1800	148	1652		
		17-23	1900		1900		1752		



## Limiting Constraints

<b>NR</b>	<b>Import</b>	High loading of 400 kV Kahalgaon-Biharsharif* Low voltage in Punjab, Haryana, Western UP High loading of 400kV 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 and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Binaguri-Bongaigaon ckt-I*
	<b>Export</b>	High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Purnea-Muzaffarpur and 400 kV Binaguri-Bongaigaon ckt-I*
<b>SR</b>	<b>Import</b>	Link capacity of HVDC Bhadrawati B/B High loading of R400 kV Rourkela-Talcher* 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	7522	7600	2825	2665
2	Haryana	5743	5453	3293	3293
3	Rajasthan	5938	5977	3398	3357
4	Delhi	4474	4037	1259	1259
5	Uttar Pradesh	9714	9534	4253	3958
6	Jammu & Kashmir	1873	1773	586	615
7	Uttarakhand	1560	1100	955	929
8	Himachal Pradesh	1030	970	745	745
9	Chandigarh	279	203	0	0
10	ISGS			18020	16510
	<b>Total NR</b>	<b>38133</b>	<b>36647</b>	<b>35334</b>	<b>33331</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6250	4930	4617	3942
2	Jharkhand	900	700	390	390
3	Orissa	3300	2400	2707	2092
4	Bihar	1650	1300	130	130
5	Damodar Valley Corporation	2200	1900	1551	1551
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			6236	6236
	<b>Total ER</b>	<b>14470</b>	<b>11400</b>	<b>17031</b>	<b>15741</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2444	1983	2646	1477
2	Madhya Pradesh	4925	3944	2991	2687
3	Maharashtra	14032	10167	10978	7763
4	Gujarat	8503	6100	7765	5617
5	Goa	280	176		
6	Daman and Diu	206	209		
7	Dadra and Nagar Haveli	510	480		
8	ISGS			11071	10127
	<b>Total WR</b>	<b>30901</b>	<b>23059</b>	<b>35451</b>	<b>27671</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10612	9050	6576	5220
2	Tamil Nadu	9900	8700	4856	4076
3	Karnataka	7700	5200	5297	3508
4	Kerala	2700	2200	1890	1050
5	Pondy	290	230		
6	Goa	80	60		
7	ISGS			9800	8950
	<b>Total SR</b>	<b>31282</b>	<b>25440</b>	<b>28419</b>	<b>22804</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	115	92	0	0
2	Meghalaya	258	180	120	70
3	Mizoram	70	40	0	0
4	Nagaland	70	60	15	15
5	Assam	950	824	240	220
6	Tripura	180	100	105	100
7	Arunachal Pradesh	124	83	0	0
8	ISGS			1292	682
	<b>Total NER</b>	<b>1767</b>	<b>1379</b>	<b>1772</b>	<b>1087</b>
	<b>Total All India</b>	<b>116552</b>	<b>97925</b>	<b>118007</b>	<b>100634</b>