

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

Issue Date:22/09/2012

Issue Time: 1700 hrs

Revision No. 18

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 September 2012 to 30th September 2012	00-24	1000	200	800	286	514		
WR-NR	1st September 2012 to 30th September 2012	00-24	1600	200	1400	520	880		
NR-ER	1st September 2012 to 30th September 2012	00-17	800	200	600	0	600		
		23-24			700		700		
		17-23	900						
ER-NR	21st September 2012 to 23rd September 2012	00-06	4000	300	3700	1158	2542	Shutdown of 400 kV Barh-Patna D/C	
		19-24	3450		3150		1992		
	24th September 2012 to 30th September 2012	00-07	4000	3700	2542		Review of line loadings limits		
		19-24	2650	2350	1192		Shutdown of 400 kV Kahalgaon-Biharshariff III & IV		
WR-ER#	23rd September 2012 to 24th September 2012	00-08 19-24	1400	300	1100	0	1100	Shutdown of 400 kV Maithon-Durgapur D/C	
		08-19'	1300	300	1000	0	1000		
	25th September 2012 to 30th September 2012	00-24	1400	300	1100	0	1100	Sterlite considered in WR in bid area W3 for which separate export TTC is indicated	
ER-WR#	18th September 2012 to 30th September 2012	00-24	900	250	650	650	0		
WR-SR	18th September 2012 to 30th September 2012	00-24	1000	0	1000	992	8		
SR-WR	1st September 2012 to 30th September 2012	00-24	1000	0	1000	0	1000		
ER-SR#	23rd September 2012	00-24	500*	0	500*	170	330*	Shutdown of 400 kV Baripada-Kharagpur-Kolaghar S/C	
	24th September 2012	00-08 19-24	500*		500*		330*		
		08-19'	300*		300*		130*		
	25th September 2012 to 30th September 2012	00-24'	500*		500*		330*		
SR-ER	1st September 2012 to 6th September 2012	00-17	800	0	800	148	652		
		23-24	900		900		752		
	7th September 2012 to 30th September 2012	00-17	800	0	800		197		603
		23-24	900		900		703		
ER-NER#	21st September 2012 to 30th September 2012	00-17	580	35	545	200	345	Review of line loadings limits	
		23-24			465		265		
		17-23	500		200				
NER-ER#	21st September 2012 to 30th September 2012	00-17	550	100	450	0	450	Review of line loadings limits	
		23-24	320		220		220		
		17-23							
S1-S2	1st September 2012 to 30th September 2012	00-10	5800	100	5700	3800	1900		
		10-24'	5500		5400		1600		
Import of Punjab	1st September 2012 to 30th September 2012	00-24	5400	300	5100	3243	1857		
Import TTC for DD & DNH	1st September 2012 to 30th September 2012	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone export TTC	18th September 2012 to 30th September 2012	00-24	7000	200	6800	4916	1884		

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

3) W3 comprises of the following regional entities and would be operational wef 0000 hrs of 18th September 2012

a) Chattisgarh, b) Jindal Power Limited (JPL), c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak

f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) Korba, j) Sipat

\* additional 250 MW can be transferred to SR if injection point is South Odisha

## 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 (n-1) contingency of 400kV Bina-Gwalior
<b>NR-ER</b>	(n-1) contingency of 400 kV Pusauli-Biharsharif
<b>ER-NR</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
<b>WR-ER</b>	(n-1) contingency of 400 kV Maithon-Kahalgaon
<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 Rourkela-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 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 High Loading of 220 kV BTPS-Agia (n-1) contingency of 400/220 kV 315 MVA ICT at Misa*
<b>NER-ER</b>	(n-1) contingency of 400 kV Purnea-Muzaffarpur (N-1) Contingency of 400 kV Balipara-Bongaigaon -II (n-1) contingency of 400/220 kV 315 MVA ICT at Misa*
<b>S1-S2</b>	(n-1) contingency of 400 kV Hosur-Salem
<b>Import of Punjab</b>	(n-1) contingency of 400/220 kV Moga ICT
<b>W3 zone export TTC</b>	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni

\*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>	21st September 2012 to 23rd September 2012	00-06	5600	500	5100	1678	3422	Shutdown of 400 kV Barh-Patna D/C
		19-24	5050		4550		2872	
	24th September 2012 to 30th September 2012	00-07	5600		5100		3422	Review of line loadings limits
		19-24	4250		3750		2072	
<b>NER</b>	21st September 2012 to 30th September 2012	00-17	580	35	545	200	345	Review of line loadings limits
		23-24	500		465	200	265	
<b>WR</b>								
<b>SR#</b>	23rd September 2012	00-24	1500*	0	1500*	170	1330*	Shutdown of 400 kV Baripada-Kharagpur-Kolaghar S/C
	24th September 2012	00-08	1500*		1500*		1330*	
		19-24	1300*		1300*		1130*	
	25th September 2012 to 30th September 2012	00-24'	1500*		1500*		1330*	

\* additional 250 MW can be transferred to SR if injection point is South Odisha

**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 September 2012 to 30th September 2012	00-24	1500	500	1000	286	714	
<b>NER</b>	21st September 2012 to 30th September 2012	00-17	550	100	450	0	450	Review of line loadings limits
		23-24	320		220		220	
<b>WR</b>								
<b>SR</b>	1st September 2012 to 6th September 2012	00-17	1800	0	1800	148	1652	
		23-24	1900		1900		1752	
	1st September 2012 to 30th September 2012	00-17	1800	0	1800	197	1603	
		23-24	1900		1900		1703	

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff* Low voltage at Gwalior on (n-1) contingency 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 (n-1) contingency of 400/220 kV 315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon
	<b>Export</b>	(N-1) Contingency of 400 kV Balipara-Bongaigaon (n-1) contingency of 400/220 kV 315 MVA ICT at Misa* (n-1) contingency of 400 kV Purnea-Muzaffarpur
<b>SR</b>	<b>Import</b>	Link Capacity of HVDC Bhadrawati B/B* (n-1) contingency of 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	7551	7100	3016	2877
2	Haryana	5901	5400	3293	3293
3	Rajasthan	6100	5900	3552	3480
4	Delhi	4565	4200	1396	1396
5	Uttar Pradesh	10050	10300	5166	4832
6	Jammu & Kashmir	1900	1802	560	609
7	Uttarakhand	1600	1230	899	906
8	Himachal Pradesh	1030	970	745	745
9	Chandigarh	282	231	0	0
10	ISGS			18226	16779
	<b>Total NR</b>	<b>38979</b>	<b>37133</b>	<b>36853</b>	<b>34918</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	2608	1983	2147	1716
2	Madhya Pradesh	5223	4166	3238	2739
3	Maharashtra	15700	12000	12016	8352
4	Gujarat	9618	6440	11085	6815
5	Goa	300	197		
6	Daman and Diu	225	177		
7	Dadra and Nagar Haveli	439	477		
8	ISGS			11971	10595
	<b>Total WR</b>	<b>34112</b>	<b>25439</b>	<b>40457</b>	<b>30217</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10715	9050	7729	5978
2	Tamil Nadu	10100	8700	4423	3439
3	Karnataka	7200	5700	4701	3300
4	Kerala	2950	2300	1343	896
5	Pondy	325	250	0	0
6	Goa	80	80	0	0
7	ISGS			9700	8800
	<b>Total SR</b>	<b>31370</b>	<b>26080</b>	<b>27896</b>	<b>22413</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>120698</b>	<b>101431</b>	<b>124009</b>	<b>104376</b>