

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

Issue Date: 1/02/2012

Issue Time: 1000 hrs

Revision No. 2

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 February 2012 to 29th February 2012	00-24	1900	200	1700	286	1414	
WR-NR	1st February 2012 to 29th February 2012	00-24	2000	200	1800	0	1800	
NR-ER	1st February 2012 to 29th February 2012	00-17 23-24	800	200	600	0	600	
		17-23	900		700		700	
ER-NR	1st February 2012 to 29th February 2012	00-17 23-24	3100	300	2800	977	1823	
		17-23	3400		3100		2123	
WR-ER	1st February 2012 to 29th February 2012	00-17 23-24	900	300	600	0	600	
		17-23	1000		700		700	
ER-WR	1st February 2012 to 29th February 2012	00-24	900	300	600	430	170	
WR-SR	1st February 2012 to 29th February 2012	00-24	800	0	800	800	0	
SR-WR	1st February 2012 to 29th February 2012	00-24	850	0	850	0	850	
ER-SR	1st February 2012 to 29th February 2012	00-05 10-19	330	0	330	330	0	
		05-10 19-24	830		830		500	
SR-ER	1st February 2012 to 29th February 2012	00-17 23-24	700	0	700	197	503	
		17-23	800		800		603	
ER-NER#	1st February 2012 and 11th February 2012 to 29th February 2012	00-17 23-24	500	35	465	204	261	Revised due to shutdown of 400 kV Balipara-Bongaigaon I
		17-23					208	
		00-17 17-23 23-24					305	
	17-23 23-24	500	465	208	257			
	204	261						
	00-08 23-24	500	35	465	204	261		
08-17'	305	270		204	66			
17-23'	500	465		208	257			
NER-ER#	1st February 2012 and 11th February 2012 to	00-24	570	100	470	0	470	
		00-17 17-24	170	100	70	0	70	
	17-24	570	470	470				
	00-08 17-24	570	100	470	0	470		
		08-17'		170		70	70	
	S1-S2	1st February 2012 to 29th February 2012	00-24	5000	100	4900	3100	
Jindal Tamnar	1st February 2012 to 29th February 2012	00-24	900	0	900	264	636	
DD & DNH	1st February 2012 to 29th February 2012	00-24	980	0	980	LTA and MTOA may be considered as per ex Power Plant drawal 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>	(n-1) contingency of 400kV Bina-Gwalior one circuit leading to over loading of the other circuit of 400 kV Bina-Gwalior and 400kV Soja-Zerda S/C
<b>NR-ER</b>	(n-1) contingency of 400 kV Maithon-Jamshedpur
<b>ER-NR</b>	(n-1) contingency of 400 kV Farakka-Malda
<b>WR-ER</b>	(n-1) contingency of 400 kV Farakka-Malda and 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 Maithon-Jamshedpur
<b>WR-SR</b>	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C (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* Low Voltage in Chennai Area*
<b>SR-ER</b>	(n-1) contingency of 400 kV Farakka-Malda and Maithon-Kahalgaon (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
<b>ER-NER</b>	(n-1) contingency of 400 kV Farakka-Malda High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara-Bongaigaon* High Loading of 400/220 kV 315 MVA ICT at Misa
<b>NER-ER</b>	(n-1) contingency of 400 kV Balipara-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
<b>S1-S2</b>	(n-1) contingency of 400 kV Hosur-Salem

\*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 February 2012 to 29th February 2012	00-17 23-24	4800	500	4300	977	3323		
		17-23	5100		4600		3623		
NER#	1st February 2012 and 11th February 2012 to 29th February 2012	00-17 23-24	500	35	465	204	261	Revised due to shutdown of 400 kV Balipara-Bongaigaon I	
		17-23				208	257		
	2nd February 2012	00-17	305	35	270	204	66		
		17-23 23-24	500		465	208	257		
		204			261				
	3rd February 2012 to 10th February 2012	00-08 23-24	500	35	465	204	261		
		08-17'				270	204		66
		17-23'				465	208		257
WR									
SR	1st February 2012 to 29th February 2012	00-05 10-19	1130	0	1130	1130	0		
		05-10 19-24	1630		1630		500		

**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 February 2012 to 29th February 2012	00-24	2300	500	1800	286	1514	
NER	1st February 2012 and 11th February 2012 to 29th February 2012	00-24	570	100	470	0	470	
		2nd February 2012	00-17	170	100	70	0	70
	17-24		570	470		470		
	3rd February 2012 to 10th February 2012	00-08 17-24	570	100	470	0	470	
08-17'		170						70
WR								
SR	1st February 2012 to 29th February 2012	00-17 23-24	1550	0	1550	197	1353	
		17-23	1650		1650		1453	

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Kahalgaon
	<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 kV Balipara-Bongaigaon* High Loading of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Farakka-Malda*
	<b>Export</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 Misa (n-1) contingency of 400 kV Balipara-Bongaigaon*
<b>SR</b>	<b>Import</b>	High loading of 400 kV Raipur-Bhadrawati T/C and Bhilai-Bhadrawati S/C 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 Farakka-Kahalgaon and 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	5182	3499	2668	2287
2	Haryana	4728	3718	2963	2963
3	Rajasthan	6057	5461	3605	3577
4	Delhi	3749	3121	1174	1174
5	Uttar Pradesh	8069	8116	3565	3585
6	Jammu & Kashmir	1688	1442	325	145
7	Uttarakhand	1151	1015	538	308
8	Himachal Pradesh	1013	895	222	64
9	Chandigarh	253	155	0	0
10	ISGS			15214	10686
	<b>Total NR</b>	<b>31890</b>	<b>27420</b>	<b>30273</b>	<b>24789</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			5370	4950
	<b>Total ER</b>	<b>13570</b>	<b>11070</b>	<b>16165</b>	<b>14455</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2890	2343	3509	2836
2	Madhya Pradesh	6991	4680	4212	2677
3	Maharashtra	15000	12000	13232	10112
4	Gujarat	9915	7575	8984	6595
5	Goa	400	283	0	0
6	Daman and Diu	226	221	0	0
7	Dadra and Nagar Haveli	505	460	0	0
8	ISGS			9964	9754
	<b>Total WR</b>	<b>35927</b>	<b>27562</b>	<b>39901</b>	<b>31974</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	9500	8054	5731	4205
2	Tamil Nadu	9400	8190	5125	4335
3	Karnataka	5955	5045	4082	3198
4	Kerala	2645	1890	1892	1081
5	Pondy	260	260		
6	Goa	75	75		
7	ISGS			7843	7357
	<b>Total SR</b>	<b>27835</b>	<b>23514</b>	<b>24673</b>	<b>20176</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>110940</b>	<b>90771</b>	<b>112784</b>	<b>92481</b>