

**National Load Despatch Centre
Total Transfer Capability for February 2013**

Issue Date: 28/10/2012

Issue Time: 1000 hrs

Revision No. 0

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 2013 to 28th February 2013	00-24	1500	200	1300	286	1014	
WR-NR	1st February 2013 to 28th February 2013	00-24	1700	200	1500	520	980	
NR-ER	1st February 2013 to 28th February 2013	00-17	800	200	600	0	600	
		23-24	900		700		700	
ER-NR	1st February 2013 to 28th February 2013	00-17	2700	300	2400	1912	488	
		23-24					488	
WR-ER	1st February 2013 to 28th February 2013	00-24	1400	300	1100	0	1100	
ER-WR	1st February 2013 to 28th February 2013	00-24	1000	250	750	750	0	
WR-SR	1st February 2013 to 28th February 2013	00-24	1000	0	1000	761	239	
SR-WR	1st February 2013 to 28th February 2013	00-24	1000	0	1000	0	1000	
ER-SR	1st February 2013 to 28th February 2013	00-05 10-19	730	0	730	170	560	
		05-10 19-24	850		850		680	
SR-ER	1st February 2013 to 28th February 2013	00-17	700	0	700	197	503	
		23-24	700		700		503	
ER-NER	1st February 2013 to 28th February 2013	00-17	450	35	415	220	195	
		23-24	450		415		195	
NER-ER	1st February 2013 to 28th February 2013	00-17	490	100	390	0	390	
		23-24	270		170		170	
S1-S2	1st February 2013 to 28th February 2013	00-24	5800	100	5700	4400	1300	
Import of Punjab	1st February 2013 to 28th February 2013	00-24	5400	300	5100	3243	1857	
Import TTC for DD & DNH	1st February 2013 to 28th February 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule		
W3 zone export TTC	1st February 2013 to 28th February 2013	00-24	7000	200	6800	6113	687	6113 MW corresponds to maximum effective LTA from W3. Export Margin from W3 would vary as per the maintenance schedule of generators in the zone.

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

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
WR-NR	(n-1) contingency of 400 kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
WR-ER	(n-1) contingency of 400 kV Sterlite-Rourkela
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 Rourkela-Raigarh
WR-SR	High loading of 400 kV Raipur-Bhadrawati T/C and Bhilai-Bhadrawati S/C (n-1) Coningency of 400kV Gooty-Somanhalli & 400kV Gooty-Nelamangala line
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area (n-1) contingency of 400 kV Rourkela-Talcher*
SR-ER	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Kadappa-Kolar and Neyveli- Sriperumbudur
ER-NER	(n-1) contingency of 400 kV Farakka-Malda* High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I
NER-ER	(n-1) contingency of 400 kV Binaguri-Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I High loading of 132 kV LTPS – Mariani S/C* (n-1) contingency of 220 kV Samaguri – Saruajai I*
S1-S2	(n-1) contingency of 400 kV Hosur-Salem
Import of Punjab	(n-1) contingency of ICT at Moga
W3 zone export TTC	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
ER								
NR	1st February 2013 to 28th February 2013	00-17 23-24	4400	500	3900	2432	1468	
		17-23			3900	2432	1468	
NER	1st February 2013 to 28th February 2013	00-17 23-24	450	35	415	220	195	
		17-23	450		415	220	195	
WR								
SR	1st February 2013 to 28th February 2013	00-05 10-19	1730	0	1730	931	799	
		05-10 19-24	1850		1850		919	

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 + ER-NER	1st February 2013 to 28th February 2013	00-17 23-24	3000	350	2650	2132	518	
		17-23	3000		2650	2132	518	
NR	1st February 2013 to 28th February 2013	00-17 23-24	2300	200	2100	286	1814	
		17-23	2400		2200		1914	
NER	1st February 2013 to 28th February 2013	00-17 23-24	490	100	390	0	390	
		17-23	270		170		170	
WR								
SR	1st February 2013 to 28th February 2013	00-17 23-24	1700	0	1700	197	1503	
		17-23	1700		1700		1503	

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Malda*
	Export	(n-1) contingency of 400 kV Bina-Gwalior* (n-1) contingency of 400kV Bina(PG)-Bina(MP) (n-1) contingency of 400 kV Pusauli-Biharsharif
NER	Import	High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I (n-1) contingency of 400 kV Farakka-Malda*
	Export	High loading of 132 kV LTTPS - Mariani* (n-1) contingency of 400 kV Binaguri-Bongaigaon & 400 kV Balipara-Bongaigaon-I
SR	Import	High loading of 400 kV Raipur-Bhadrawati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Rourkela-Talcher 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
ER-NR + ER-NER	Export	(n-1) contingency of 400 kV Farakka-Malda

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	5062	4141	2242	2174
2	Haryana	5017	4047	3122	3122
3	Rajasthan	7048	6700	3855	3886
4	Delhi	4179	3012	1416	1416
5	Uttar Pradesh	10478	9100	5500	5335
6	Jammu & Kashmir	1838	1380	235	252
7	Uttarakhand	1333	1100	512	321
8	Himachal Pradesh	1055	940	230	44
9	Chandigarh	187	86	0	0
10	ISGS			16279	10791
	Total NR	36197	30506	33392	27341
II	EASTERN REGION				
1	West Bengal	5300	3900	4600	3750
2	Jharkhand	900	770	390	350
3	Orissa	3000	2200	2800	1710
4	Bihar	1500	1300	130	100
5	Damodar Valley Corporation	2200	2000	1550	2650
6	Sikkim	60	50	0	0
7	Bhutan	110	110	1400	270
8	ISGS			6300	5180
	Total ER	13070	10330	17170	14010
III	WESTERN REGION				
1	Chattisgarh	2977	2132	2518	2025
2	Madhya Pradesh	7112	4894	3443	2802
3	Maharashtra	15798	12916	13113	9454
4	Gujarat	10470	8369	9933	7564
5	Goa	327	198		
6	Daman and Diu	260	181		
7	Dadra and Nagar Haveli	612	479		
8	ISGS			13063	11996
	Total WR	37556	29169	42070	33841
IV	SOUTHERN REGION				
1	Andhra Pradesh	11120	9901	8032	6753
2	Tamil Nadu	10756	9471	5146	3928
3	Karnataka	8500	6242	5977	3928
4	Kerala	3305	2690	222	1153
5	Pondy	303	247		
6	Goa	84	84		
7	ISGS			11053	10815
	Total SR	34068	28635	30430	26577
V	NORTH-EASTERN REGION				
1	Manipur	105	74	0	0
2	Meghalaya	280	196	121	118
3	Mizoram	75	53	6	3
4	Nagaland	115	81	12	10
5	Assam	1200	800	230	211
6	Tripura	200	140	100	100
7	Arunachal Pradesh	105	74	0	0
8	ISGS	0	0	966	533
	Total NER	2080	1418	1435	975
	Total All India	122971	100058	124497	102744