

**National Load Despatch Centre
Total Transfer Capability for January 2011**

Issue Date: 21/01/2011

Issue Time: 1600 hrs

Revision No. 3

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 January 2011 to 31st January 2011	00-24	1500	200	1300	55	1245	
WR-NR	1st January 2011 to 31st January 2011	00-24	1900	200	1700	0	1700	
NR-ER	1st January 2011 to 31st January 2011	00-24	850	200	650	0	650	
ER-NR#	1st January 2011 to 21st January 2011	00-24	2500	300	2200	1258	942	Revised due to Shutdown of HVDC Talcher-Kolar Bipole on 23/01/2011 and Single pole on 22/01/2011, 24/01/2011 and 25/01/2011
	22nd January 2011	00-06 18-24	2500		2200		942	
		06-18	2000		1700		442	
	23rd January 2011	00-06 20-24	2500		2200		942	
		06-20	2000		1700		442	
	24th January 2011 to 25th January 2011	00-06 18-24	2500		2200		942	
		06-18	2000		1700		442	
26th January 2011 to 31st January 2011	00-24	2500	2200	942				
WR-ER#	1st January 2011 to 21st January 2011	00-17 23-24	900	300	600	0	600	Revised due to Shutdown of HVDC Talcher-Kolar Bipole on 23/01/2011 and Single pole on 22/01/2011, 24/01/2011 and 25/01/2011
		17-23	1000		700		700	
		00-06 23-24	900		600		600	
	22nd January 2011	06-18	0		0		0	
		18-23	1000		700		700	
		00-06 23-24	900		600		600	
	23rd January 2011	06-20	0		0		0	
		20-23	1000		700		700	
		00-06 18-24	900		600		600	
	24th January 2011 to 25th January 2011	06-18	0		0		0	
		18-23	1000		700		700	
		00-17 23-24	900		600		600	
	26th January 2011 to 31st January 2011	17-23	1000		700		700	
00-24		1200	900	555	345			
ER-WR	1st January 2011 to 31st January 2011	00-24	1200	300	900	555	345	
WR-SR	1st January 2011 to 31st January 2011	00-24	1000	0	1000	0	1000	
SR-WR	1st January 2011 to 31st January 2011	00-24	900	0	900	0	900	
ER-SR	1st January 2011 to 31st January 2011	00-24	330	100	230	140	90	
SR-ER	1st January 2011 to 31st January 2011	00-17 23-24	1100	100	1000	141	859	
		17-23	1200		1100		959	
ER-NER	1st January 2011 to 31st January 2011	00-17 23-24	400	50	350	183	167	
		17-23	400		350		170	
NER-ER	1st January 2011 to 31st January 2011	00-24	600	100	500	0	500	
S1-S2^	1st January 2011 to 31st January 2011	00-24	4900	100	4800	3100	1700	

#Revised

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
NR-WR	Over loading of 400kV Bina-Nagda D/C and 400kV Khandwa-Dhule D/C (n-1) contingency of 400kV Bina-Gwalior one circuit leading to over loading of the other circuit of 400 kV
WR-NR	Bina-Gwalior and 400kV Soja-Zerda S/C
NR-ER	(n-1) contingency of 400 kV Kahalgaon-Maithon
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
WR-ER	(n-1) contingency of 400 kV Farakka-Malda (n-1) contingency of 220 kV Budhipadar-Tarkera High loading of 220 kV Korba(E)-Raigarh
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
SR-WR	(n-1) contingency of Chandrapur-Parli
ER-SR	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area*
SR-ER	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	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 Farakka-Malda*
NER-ER	(n-1) contingency of 400 kV Binaguri-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*
S1-S2	(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 January 2011 to 21st January 2011	00-24	4300	500	3800	1258	2542	Revised due to Shutdown of HVDC Talcher-Kolar Bipole on 23/01/2011 and Single pole on 22/01/2011, 24/01/2011 and 25/01/2011
	22nd January 2011	00-06 18-24	4300		3800		2542	
		06-18	3900		3400		2142	
	23rd January 2011	00-06 20-24	4300		3800		2542	
		06-20	3900		3400		2142	
	24th January 2011 to 25th January 2011	00-06 18-24	4300		3800		2542	
06-18		3900	3400	2142				
26th January 2011 to 31st January 2011	00-24	4300	3800	2542				
NER	1st January 2011 to 31st January 2011	00-17 23-24	400	50	350	183	167	
		17-23	400		350	170	180	
WR								
SR	1st January 2010 to 31st January 2010	00-24	1330	100	1230	140	1090	

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 January 2011 to 31st January 2011	00-24	2300	500	1800	55	1745	
NER	1st January 2011 to 31st January 2011	00-24	600	100	500	0	500	
WR								
SR	1st January 2010 to 31st January 2010	00-17 23-24	2000	100	1900	141	1759	
		17-23	2100		2000		1859	

Revised

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Malda
	Export	(n-1) contingency of 400 kV Kahalgaon-Maithon
NER	Import	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 Farakka-Malda*
	Export	(n-1) contingency of 400 kV Binaguri-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*
SR	Import	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C 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 Farakka-Malda for peak-period (n-1) contingency of 400 kV Kadappa-Kolar and neyvelli- Sriperumbudur

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	5020	4050	2245	2060
2	Haryana	4535	3650	2990	2990
3	Rajasthan	5580	5500	3780	3700
4	Delhi	3340	1600	1115	1115
5	Uttar Pradesh	7725	7800	3245	3115
6	Jammu & Kashmir	1425	1300	410	380
7	Uttarakhand	1020	870	415	320
8	Himachal Pradesh	880	530	130	60
9	ISGS			12460	8080
	Total NR	29525	25300	26790	21820
II	EASTERN REGION				
1	West Bengal	4970	4000	4670	4005
2	Jharkhand	795	600	630	370
3	Orissa	2980	2000	2415	1600
4	Bihar	1290	1000	150	150
5	Damodar Valley Corporation	1890	1600	2070	1600
6	Sikkim	45	45	0	0
7	Bhutan	125	125	340	340
8	ISGS			4450	4375
	Total ER	12095	9370	14725	12440
III	WESTERN REGION				
1	Chattisgarh	2510	2030	3150	2920
2	Madhya Pradesh	6345	5690	4560	2660
3	Maharashtra*	13965	11035	11150	9700
4	Gujrat	8810	7240	8960	7700
	Goa	420	300	0	0
	Daman and Diu	265	240	0	0
	Dadra and Nagar Haveli	500	460	0	0
5	ISGS			8545	8230
	Total WR	32815	26995	36365	31210
IV	SOUTHERN REGION				
1	Andhra Pradesh	9625	7350	8740	7190
2	Tamil Nadu	8990	7085	6050	4070
3	Karnataka	6310	4705	4930	2470
4	Kerala	2925	1800	2340	1080
5	ISGS			6030	5800
	Total SR	27850	20940	28090	20610
V	NORTH-EASTERN REGION				
1	Manipur	100	65	0	0
2	Meghalaya	300	240	90	70
3	Mizoram	55	40	0	0
4	Nagaland	80	65	0	0
5	Assam	765	560	390	180
6	Tripura	130	80	85	80
7	Arunachal Pradesh	70	55	0	0
8	ISGS			880	370
	Total NER	1500	1105	1445	700
	Total All India	103785	83710	107415	86780

* Assumptions are corresponding to the basecase and not the limiting case