

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

Issue Date: 28/03/2011

Issue Time: 1200 hrs

Revision No. 1

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 April 2012 to 30th April 2012	00-24	1900	200	1700	286	1414	
WR-NR	1st April 2012 to 30th April 2012	00-24	2000	200	1800	247	1553	
NR-ER	1st April 2012 to 30th April 2012	00-17	800	200	600	0	600	
		23-24	900		700		700	
ER-NR	1st April 2012 to 30th April 2012	00-24	2800	300	2500	965	1535	
WR-ER	1st April 2012 to 30th April 2012	00-17	900	300	600	0	600	
		23-24	1000		700		700	
ER-WR	1st April 2012 to 30th April 2012	00-24	900	300	600	433	167	
WR-SR	1st April 2012 to 30th April 2012	00-24	800	0	800	800	0	
SR-WR	1st April 2012 to 30th April 2012	00-24	850	0	850	0	850	
ER-SR	1st April 2012 to 30th April 2012	00-05 10-19	330	0	330	330	0	
		05-10 19-24	830		830		500	
SR-ER	1st April 2012 to 30th April 2012	00-17	700	0	700	197	503	
		23-24	800		800		603	
ER-NER#	1st April 2012 to 12th April 2012	00-17	305	35	270	152	118	Revised due to shutdown of 400 kV Balipara-Bongaigaon. Revision would be on the basis of time availing and returning shutdown for either circuits.
		23-24	345		310		114	
	13th April 2012 to 30th April 2012	00-17	450	35	415	152	263	
		23-24					156	
NER-ER#	1st April 2012 to 12th April 2012	00-17	170	50	120	0	120	Revised due to shutdown of 400 kV Balipara-Bongaigaon. Revision would be on the basis of time availing and returning shutdown for either circuits.
		23-24	135		85		85	
	13th April 2012 to 30th April 2012	00-24	570	100	470	0	470	
S1-S2	1st April 2012 to 30th April 2012	00-24	5000	100	4900	3100	1800	

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	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
WR-NR	(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
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 Farakka-Malda and Maithon-Kahalgaon
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 Maithon-Jamshedpur
WR-SR	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore*
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	(n-1) contingency of 400 kV Farakka-Malda 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
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 April 2012 to 30th April 2012	00-24	4600	500	4100	965	3135	
NER#	1st April 2012 to 12th April 2012	00-17	305	35	270	152	118	Revised due to shutdown of 400 kV Balipara-Bongaigaon. Revision would be on the basis of time availing and returning shutdown for either circuits.
		23-24						
	17-23	345	310	156	114			
	13th April 2012 to 30th April 2012	00-17	450	35	415	152	263	
23-24		156						259
WR								
SR	1st April 2012 to 30th April 2012	00-05	1130	0	1130	1130	0	
		10-19	1630		1630		500	
		05-10						
		19-24						

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 April 2012 to 30th April 2012	00-24	2300	500	1800	286	1514	
NER#	1st April 2012 to 12th April 2012	00-17	170	50	120	0	120	Revised due to shutdown of 400 kV Balipara-Bongaigaon. Revision would be on the basis of time availing and returning shutdown for
		23-24						
	17-23	135	85	85				
	13th April 2012 to 30th April 2012	00-24	570	100	470	0	470	
WR								
SR	1st April 2012 to 30th April 2012	00-17	1550	0	1550	197	1353	
		23-24	1650		1650		1453	
		17-23						

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Malda* (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
	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	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 Binaguri-Bongaigaon*
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-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)
I	NORTHERN REGION				
1	Punjab	5455	4726	2401	2359
2	Haryana	4718	4035	2963	2963
3	Rajasthan	6380	5544	3889	3862
4	Delhi	3663	3086	1206	1206
5	Uttar Pradesh	8600	7600	4137	4128
6	Jammu & Kashmir	1523	1200	432	329
7	Uttarakhand	1118	981	574	361
8	Himachal Pradesh	1032	905	173	155
9	Chandigarh	212	120	0	0
10	ISGS			15742	10887
	Total NR	32701	28197	31518	26250
II	EASTERN REGION				
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			5770	5150
	Total ER	13570	11070	16565	14655
III	WESTERN REGION				
1	Chattisgarh	2751	2550	3724	3348
2	Madhya Pradesh	6076	4400	3469	2383
3	Maharashtra	15513	13300	11238	9104
4	Gujarat	9658	7800	8794	7145
5	Goa	380	270	0	0
6	Daman and Diu	270	312	0	0
7	Dadra and Nagar Haveli	683	607	0	0
8	ISGS			11679	11226
	Total WR	35331	29239	38904	33206
IV	SOUTHERN REGION				
1	Andhra Pradesh	9500	8054	5731	4205
2	Tamil Nadu	9400	8390	5125	4335
3	Karnataka	6055	5145	4082	3198
4	Kerala	2945	1890	1892	1081
5	Pondy	260	260		
6	Goa	75	75		
7	ISGS			7843	7357
	Total SR	28235	23814	24673	20176
V	NORTH-EASTERN REGION				
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
	Total NER	1718	1205	1772	1087
	Total All India	111555	93525	113431	95374