

National Load Despatch Centre
Total Transfer Capability for December 2012

Issue Date: 28/08/2012

Issue Time: 1200 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 December 2012 to 31st December 2012	00-24	1500	200	1300	286	1014	
WR-NR	1st December 2012 to 31st December 2012	00-24	1600	200	1400	520	880	
NR-ER	1st December 2012 to 31st December 2012	00-17 23-24	800	200	600	0	600	
		17-23	900		700		700	
ER-NR	1st December 2012 to 31st December 2012	00-17 23-24	3000	300	2700	1033	1667	
		17-23				1077	1623	
WR-ER	1st December 2012 to 31st December 2012	00-24	700	300	400	0	400	
ER-WR	1st December 2012 to 31st December 2012	00-24	1000	300	700	630	70	
WR-SR	1st December 2012 to 31st December 2012	00-24	800	0	800	761	39	
SR-WR	1st December 2012 to 31st December 2012	00-24	1000	0	1000	0	1000	
ER-SR	1st December 2012 to 31st December 2012	00-05 10-19	630	0	630	170	460	
		05-10 19-24	750		750		580	
SR-ER	1st December 2012 to 31st December 2012	00-17 23-24	700	0	700	197	503	
		17-23	700		700		503	
ER-NER	1st December 2012 to 31st December 2012	00-17 23-24	430	35	395	157	238	
		17-23	490		455	160	295	
NER-ER	1st December 2012 to 31st December 2012	00-17 23-24	520	100	420	0	420	
		17-23	300		200		200	
S1-S2	1st December 2012 to 31st December 2012	00-24	5500	100	5400	3800	1600	
Import of Punjab	1st December 2012 to 31st December 2012	00-24	5400	300	5100	3243	1857	
JPL Complex	1st December 2012 to 31st December 2012	00-24	900	0	900	0	900	
Import TTC for DD&DNH	1st December 2012 to 31st December 2012	00-24	980	0	980	LTA and MTOA as per ex-pp 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
NR-WR	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
WR-NR	Low voltage at Gwalior on outage of 400 kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1-1) contingency of 400 kV Farakka-Malda
WR-ER	(n-1) contingency of 400 kV 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 Rourkela-Jamshedpur
WR-SR	High loading of 400 kV Raipur-Bhadrawati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore*
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 Maithon-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyveli- Sriperumbudur
ER-NER	(n-1-1) 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, Balipara*
NER-ER	(n-1) contingency of 400 kV Purnea-Muzaffarpur 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
Import of Punjab	(n-1) contingency of ICT at Moga

*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 December 2012 to 31st December 2012	00-17	4600	500	4100	1033	3067	
		23-24			4100	1077	3023	
NER	1st December 2012 to 31st December 2012	00-17	430	35	395	157	238	
		23-24	490		455	160	295	
WR								
SR	1st December 2012 to 31st December 2012	00-05	1430	0	1430	931	499	
		10-19	1550		1550		619	

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 December 2012 to 31st December 2012	00-17	3300	350	2950	1190	1760	
		23-24	3300		2950	1230	1720	
NR	1st December 2012 to 31st December 2012	00-24	2300	500	1800	286	1514	
NER	1st December 2012 to 31st December 2012	00-17	520	100	420	0	420	
		23-24	300		200		200	
WR								
SR	1st December 2012 to 31st December 2012	00-17	1700	0	1700	197	1503	
		23-24	1700		1700		1503	

Limiting Constraints

NR	Import	(n-1-1) contingency of 400 kV Farakka-Malda* Low voltage at Gwalior on outage of 400 kV Bina-Gwalior*
	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 Purnea-Muzaffarpur*
SR	Import	High loading of 400 kV Raipur-Bhadravati 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-1-1) 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	5260	3870	2340	2200
2	Haryana	5160	4690	3430	3430
3	Rajasthan	7310	6600	3980	3950
4	Delhi	4060	3400	1420	1420
5	Uttar Pradesh	10550	9300	5310	5220
6	Jammu & Kashmir	1990	1400	310	250
7	Uttarakhand	1330	1100	500	280
8	Himachal Pradesh	1060	970	250	150
9	Chandigarh	250	100	0	0
10	ISGS			15860	10570
	Total NR	36970	31430	33400	27470
II	EASTERN REGION				
1	West Bengal	5300	4150	4600	3950
2	Jharkhand	900	850	390	390
3	Orissa	3000	2500	2800	2090
4	Bihar	1500	1300	130	130
5	Damodar Valley Corporation	2200	1900	1550	1550
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			6300	5900
	Total ER	13070	10870	17170	15410
III	WESTERN REGION				
1	Chattisgarh	2770	2140	2520	1990
2	Madhya Pradesh	7650	6230	3440	2800
3	Maharashtra	15660	11910	13110	9450
4	Gujarat	9910	7880	9930	7560
5	Goa	330	200		
6	Daman and Diu	220	160		
7	Dadra and Nagar Haveli	530	240		
8	ISGS			13260	11700
	Total WR	37070	28760	42260	33500
IV	SOUTHERN REGION				
1	Andhra Pradesh	10480	9150	7830	5880
2	Tamil Nadu	10120	8950	4960	3800
3	Karnataka	7640	6100	4500	3440
4	Kerala	3240	2420	900	580
5	Pondy	300	240		
6	Goa	80	80		
7	ISGS			11520	11300
	Total SR	31860	26940	29710	25000
V	NORTH-EASTERN REGION				
1	Manipur	100	60	0	0
2	Meghalaya	280	170	110	70
3	Mizoram	70	40	10	10
4	Nagaland	80	60	10	10
5	Assam	880	570	270	220
6	Tripura	210	150	100	90
7	Arunachal Pradesh	100	30	0	0
8	ISGS	0	0	820	420
	Total NER	1720	1080	1320	820
	Total All India	120690	99080	123860	102200