

National Load Despatch Centre
Total Transfer Capability for September 2012

Issue Date: 30/08/2012

Issue Time: 1100 hrs

Revision No. 5

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 September 2012 to 30th September 2012	00-24	1000	200	800	286	514	Revised due to shutdown of 400 kV Zerda-Kankroli for insulator replacement work.
WR-NR	1st September 2012 to 30th September 2012	00-24	1500	200	1300	520	780	
NR-ER	1st September 2012 to 30th September 2012	00-17	800	200	600	0	600	
		23-24	900		700		700	
ER-NR#	1st September 2012 to 30th September 2012	00-24	3850	300	3550	1158	2392	Review of safe loading limits of transmission lines
WR-ER	1st September 2012 to 30th September 2012	00-24	1000	300	700	0	700	
ER-WR	1st September 2012 to 30th September 2012	00-24	1000	300	700	650	50	
WR-SR#	1st September 2012 to 30th September 2012	00-24	1000	0	1000	992	8	Revised due to low gas generation at Vemagiri Complex
SR-WR	1st September 2012 to 30th September 2012	00-24	1000	0	1000	0	1000	
ER-SR#	1st September 2012 to 6th September 2012	00-24'	750	0	750	170	580	Revised due to low gas generation at Vemagiri Complex
		7th September 2012 to 30th September 2012	00-05 10		730		730	
		05-10 19-	750		750		580	
SR-ER	1st September 2012 to 6th September 2012	00-17	800	0	800	148	652	
		23-24	900		900		752	
	1st September 2012 to 30th September 2012	00-17	800	0	800	197	603	
		23-24	900		900		703	
ER-NER#	1st September 2012 to 30th September 2012	00-17	370	35	335	200	135	Review of safe loading limits of transmission lines
		23-24	450		415		215	
NER-ER#	1st September 2012 to 30th September 2012	00-17	520	100	420	0	420	Review of safe loading limits of transmission lines
		23-24	320		220		220	
S1-S2	1st September 2012 to 30th September 2012	00-10	5800	100	5700	3800	1900	
		10-24'	5500		5400		1600	
JPL Complex	1st September 2012 to 30th September 2012	00-24	1030	0	1030	0	1030	
Import of Punjab	1st September 2012 to 30th September 2012	00-24	5400	300	5100	3243	1857	
Import TTC for DD&DNH	1st September 2012 to 30th September 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 (n-1) contingency of 400kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1) contingency of 400 kV Purnea-Muzaffarpur
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	Link capacity of HVDC Bhadrawati B/B (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* (n-1) contingency of Rourkela-Talcher * Low Voltage in Chennai Area*
SR-ER	(n-1) contingency of 400 kV Maithon-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	(n-1) contingency of 400 kV Binaguri-Bongaigaon High Loading of 220 kV BTPS-Agia High Loading of 400/220 kV 315 MVA ICT at Misa, Balipara*
NER-ER	(n-1) contingency of 400 kV Purnea-Muzaffarpur (N-1) Contingency of 400 kV Balipara-Bongaigaon -II High Loading of 220 kV Sarusajai-Agia S/C 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 September 2012 to 30th September 2012	00-24	5350	500	4850	1678	3172	
NER#	1st September 2012 to 30th September 2012	00-17 23-24	370	35	335	200	135	
		17-23	450		415	200	215	
WR								
SR	1st September 2012 to 6th September 2012	00-24'	1750	0	1750	1162	588	
	7th September 2012 to 30th September 2012	00-05 10-19	1730		1730		568	
		05-10 19-24	1750		1750		588	

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 September 2012 to 30th September 2012	00-24	1500	500	1000	286	714	Revised due to shutdown of 400 kV Zerda-Kankroli for insulator replacement work
NER#	1st September 2012 to 30th September 2012	00-17 23-24	520	100	420	0	420	
		17-23	320		220		220	
WR								
SR#	1st September 2012 to 6th September 2012	00-17 23-24	1800	0	1800	148	1652	
		17-23	1900		1900		1752	
	1st September 2012 to 30th September 2012	00-17 23-24	1800	0	1800	197	1603	
		17-23	1900		1900		1703	

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Purnea Muzaffarpur* Low voltage at Gwalior on (n-1) contingency of 400kV Bina-Gwalior
	Export	(n-1) contingency of 400 kV Kahalgaon-Maithon
NER	Import	High Loading of 220 kV BTPS-Agia High Loading of 400/220 kV 315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon
	Export	(N-1) Contingency of 400 kV Balipara-Bongaigaon -II High Loading of 220 kV Sarusajai-Agia S/C High Loading of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Purnea-Muzaffarpur*
SR	Import	Link Capacity of HVDC Bhadrawati B/B* (n-1) contingency of 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

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	7551	7100	3016	2877
2	Haryana	5901	5400	3293	3293
3	Rajasthan	6100	5900	3552	3480
4	Delhi	4565	4200	1396	1396
5	Uttar Pradesh	10050	10300	5166	4832
6	Jammu & Kashmir	1900	1802	560	609
7	Uttarakhand	1600	1230	899	906
8	Himachal Pradesh	1030	970	745	745
9	Chandigarh	282	231	0	0
10	ISGS			18226	16779
	Total NR	38979	37133	36853	34918
II	EASTERN REGION				
1	West Bengal	6250	4930	4617	3942
2	Jharkhand	900	700	390	390
3	Orissa	3300	2400	2707	2092
4	Bihar	1650	1300	130	130
5	Damodar Valley Corporation	2200	1900	1551	1551
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			6236	6236
	Total ER	14470	11400	17031	15741
III	WESTERN REGION				
1	Chattisgarh	2608	1983	2147	1716
2	Madhya Pradesh	5223	4166	3238	2739
3	Maharashtra	15700	12000	12016	8352
4	Gujarat	9618	6440	11085	6815
5	Goa	300	197		
6	Daman and Diu	225	177		
7	Dadra and Nagar Haveli	439	477		
8	ISGS			11971	10595
	Total WR	34112	25439	40457	30217
IV	SOUTHERN REGION				
1	Andhra Pradesh	10715	9050	7729	5978
2	Tamil Nadu	10100	8700	4423	3439
3	Karnataka	7200	5700	4701	3300
4	Kerala	2950	2300	1343	896
5	Pondy	325	250	0	0
6	Goa	80	80	0	0
7	ISGS			9700	8800
	Total SR	31370	26080	27896	22413
V	NORTH-EASTERN REGION				
1	Manipur	115	92	0	0
2	Meghalaya	258	180	120	70
3	Mizoram	70	40	0	0
4	Nagaland	70	60	15	15
5	Assam	950	824	240	220
6	Tripura	180	100	105	100
7	Arunachal Pradesh	124	83	0	0
8	ISGS			1292	682
	Total NER	1767	1379	1772	1087
	Total All India	120698	101431	124009	104376