

National Load Despatch Centre
Total Transfer Capability for August 2012

Issue Date: 23/08/2012

Issue Time: 1730 hrs

Revision No. 12

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	5th August 2012 to 31st August 2012	00-24	1000	200	800	286	514	
WR-NR	15th August 2012 to 31st August 2012	00-24	1500	200	1300	260	1040	
NR-ER	1st August 2012 to 31st August 2012	00-17	800	200	600	0	600	
		23-24	900		700		700	
ER-NR	19th August 2012 to 31st August 2012	00-24	3600	200	3400	1158	2242	
WR-ER#	18th August 2012 to 31st August 2012	00-24	1000	300	700	0	700	
ER-WR	1st August 2012 to 31st August 2012	00-24	1000	300	700	650	50	
WR-SR	1st August 2012 to 31st August 2012	00-24	1000	0	1000	992	8	
SR-WR	1st August 2012 to 31st August 2012	00-24	1000	0	1000	0	1000	
ER-SR	1st August 2012 to 2nd August 2012	00-05, 10-19	730	0	730	170	560	
		05-10, 19-24	900		900		730	
	3rd August 2012 to 31st August 2012	00-05, 10-19	750		750		580	
		05-10, 19-24	750		750		580	
SR-ER	1st August 2012 to 2nd August 2012	00-17	800	0	800	197	603	
		23-24	900		900		703	
	3rd August 2012 to 31st August 2012	00-17	800		800	148	652	
		23-24	900		900		752	
ER-NER#	24th August 2012	00-08 15-24	440	35	405	200	205	Emergency Shutdown of 220 kV Sarusajai-Samaguri I
		08-15'	390		355	200	155	
	25th August 2012 to 31st August 2012	00-17	440	35	405	135	270	
		17-23	440		405	138	267	
NER-ER	7th August 2012	00-09	550	100	450	0	450	
		09-24'	205		105		105	
	8th August 2012 to 31st August 2012	00-17	550	100	450	0	450	
		23-24	310		210		210	
S1-S2	1st August 2012 to 31st August 2012	00-24	4600	100	4500	3300	1200	
Import of Punjab	1st July 2012 to 31st July 2012	00-24	5400	300	5100	3243	1857	
JPL Complex	1st August 2012 to 31st August 2012	00-24	1030	0	1030	0	1030	
Import TTC for DD&DNH	1st August 2012 to 31st August 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	High loading of 400 kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	High loading of 400 kV Kahalgaon-Biharsharif
WR-ER	(n-1) contingency of 400 kV Maithon-Kahalgaon
ER-WR	Link capacity of HVDC Bhadrawati B/B (n-1) contingency of 400kV Rourkela-Jamshedpur
WR-SR	HVDC Bhadrawati B/B link capacity* (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 High loading 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 Ckt-I* High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa
NER-ER	(n-1) contingency of 400 kV Purnea-Muzaffarpur and 400 kV Binaguri-Bongaigaon Ckt-I* High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa*
S1-S2	High loading of 400 kV Hosur-Salem
Import of Punjab	(n-1) contingency of 400/220 kV ICT at Moga Low voltage in Punjab 220 kV system

*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	19th August 2012 to 31st August 2012	00-24	5100	500	4600	1418	3182	
NER	24th August 2012	00-08	440	35	405	200	205	Emergency Shutdown of 220 kV Sarusajai-Samaguri I
		15-24			390	200	155	
	25th August 2012 to 31st August 2012	00-17	440	35	405	135	270	
		23-24			440	138	267	
WR								
SR	1st August 2012 to 2nd August 2012	00-05, 10-19	1730	0	1730	1162	568	
		05-10, 19-24	1900		1900		738	
	3rd August 2012 to 31st August 2012	00-05, 10-19	1750		1750		588	
		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 August 2012 to 31st August 2012	00-24	1500	500	1000	286	714	
NER#	7th August 2012	00-09	550	100	450	0	450	
		09-24	205		105		105	
	8th August 2012 to 31st August 2012	00-17	550	100	450	0	450	
		23-24			310		210	
WR								
SR	1st August 2012 to 2nd August 2012	00-17	1800	0	1800	197	1603	
		23-24	1900		1900		1703	
	3rd August 2012 to 31st August 2012	00-17	1800		1800	148	1652	
		23-24			1900		1752	

Limiting Constraints

NR	Import	High loading of 400 kV Kahalgaon-Biharsharif* Low voltage in Punjab, Haryana, Western UP High loading 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 220 kV Balipara-Samaguri and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Binaguri-Bongaigaon ckt-I*
	Export	High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri and 220 kV Birpara-Salakati D/C* (n-1) contingency of 400/220 kV 315 MVA ICT at Misa (n-1) contingency of 400 kV Purnea-Muzaffarpur and 400 kV Binaguri-Bongaigaon ckt-I*
SR	Import	Link capacity of HVDC Bhadrawati B/B High loading of R400 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

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	7522	7600	2825	2665
2	Haryana	5743	5453	3293	3293
3	Rajasthan	5938	5977	3398	3357
4	Delhi	4474	4037	1259	1259
5	Uttar Pradesh	9714	9534	4253	3958
6	Jammu & Kashmir	1873	1773	586	615
7	Uttarakhand	1560	1100	955	929
8	Himachal Pradesh	1030	970	745	745
9	Chandigarh	279	203	0	0
10	ISGS			18020	16510
	Total NR	38133	36647	35334	33331
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	2444	1983	2646	1477
2	Madhya Pradesh	4925	3944	2991	2687
3	Maharashtra	14032	10167	10978	7763
4	Gujarat	8503	6100	7765	5617
5	Goa	280	176		
6	Daman and Diu	206	209		
7	Dadra and Nagar Haveli	510	480		
8	ISGS			11071	10127
	Total WR	30901	23059	35451	27671
IV	SOUTHERN REGION				
1	Andhra Pradesh	10612	9050	6576	5220
2	Tamil Nadu	9900	8700	4856	4076
3	Karnataka	7700	5200	5297	3508
4	Kerala	2700	2200	1890	1050
5	Pondy	290	230		
6	Goa	80	60		
7	ISGS			9800	8950
	Total SR	31282	25440	28419	22804
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	116552	97925	118007	100634