

**National Load Despatch Centre
Total Transfer Capability for May 2013**

Issue Date: 30/04/2013

Issue Time: 1930 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 May 2013 to 31st May 2013	00-24	1500	200	1300	286	1014	
WR-NR	1st May 2013 to 31st May 2013	00-24	2000*	200	1800	1287	513	LTA revised due to commissioning of CGPL Unit-50
NR-ER	1st May 2013 to 31st May 2013	00-17	1000	200	800	0	800	
		23-24	1100		900		900	
ER-NR	1st May 2013 to 31st May 2013	00-17	2600	300	2300	1913	387	
		23-24				1913	387	
W3-ER#	1st May 2013	00-24	1650	300	1350	0	1350	Revised due to network configuration changes in Eastern Region and other new generating units addition leading to change in power flow pattern.
	2nd May 2013	00-08	1650	300	1350	0	1350	Revised due to shutdown of 400 kV Sterlite-Raigarh (LILO 1) and 400 kV Raigarh-Rourkela 1
	08-24'	1450	300	1150	0	1150		
	3rd May 2013 to 7th May 2013	00-24	1450	300	1150	0	1150	
	8th May 2013	00-18	1450	300	1150	0	1150	Revised due to network configuration changes in Eastern Region and other new generating units addition leading to change in power flow pattern.
18-24	1650	300	1350	0	1350			
9th May 2013 to 31st May 2013	00-24	1650	300	1350	0	1350		
ER-W3#	1st May 2013	00-24	1000	300	700	700	0	Revised due to shutdown of 400 kV Sterlite-Raigarh (LILO 1) and 400 kV Raigarh-Rourkela 1
	2nd May 2013	00-08	1000	300	700	700	0	
	08-24'	800	300	500	500	0		
	3rd May 2013 to 7th May 2013	00-24	800	300	500	500	0	
	8th May 2013	00-18	800	300	500	500	0	
18-24	1000	300	700	700	0			
9th May 2013 to 31st May 2013	00-24	1000	300	700	700	0		
WR-SR	1st May 2013 to 31st May 2013	00-24	1000	0	1000	1000	0	Revised due to change in MTOA Quantum.
SR-WR	1st May 2013 to 31st May 2013	00-24	1000	0	1000	0	1000	
ER-SR	1st May 2013 to 31st May 2013	00-05	1000	0	1000	112	888	Review of TTC due to change in Load Generation scenario and also change in LTA Quantum.
		10-19	1000		1000		888	
SR-ER	1st May 2013 to 31st May 2013	00-17	700	0	700	197	503	
		23-24	700		700		503	
ER-NER	1st May 2013 to 31st May 2013	00-17	475	35	440	230	210	Revised due to change in load generation Balance.
		23-24	475		440	230	210	
NER-ER	1st May 2013 to 31st May 2013	00-17	520	100	420	0	420	
		23-24	320		220		220	
S1-S2	1st May 2013 to 31st May 2013	00-24	5400	200	5200	4000	1200	Revised due to Non-commissioning Kudamkulam unit-1.
Import of Punjab	1st May 2013 to 31st May 2013	00-24	5400	300	5100	3243	1857	
Import TTC for DD & DNH	1st May 2013 to 31st May 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule		
W3 zone Injection	1st May 2013 to 31st May 2013	00-17	9000	200	8800	6870	1930	Revised due to change in power flow pattern consequent to upgradation of Bina-Gwalior-Agra D/C section from 400 kV to 765 kV and other new generating units addition.
		23-24	9500		9300		2430	

- 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
 3) W3 comprises of the following regional entities :
 a) Chattisgarh, b) Jindal Power Limited (JPL) , c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak
 f) BALCO, g) Sterlite (#1,3,4), h) NSPCL, i) Korba, j) Sipat
 * Would be reviewed after completion of augmentation works at 765 kV Agra

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
WR-NR	(n-1) contingency of 765/400 kV ICT at Agra
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
W3-ER	(n-1) contingency of either 400 kv Mejia-Maithon or (n-1) contingency of 400 kv MPL -maithon
ER-W3	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	Bhadrawati HVDC B/B link capacity (n-1) Contingency of 400kV Gooty-Somanhalli & 400kV Gooty-Nelamangala line
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 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 (n-1) contingency of 400 kV Balipara – Bongaigaon -I
NER-ER	(n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 220 kV Samaguri – Saruajai I*
S1-S2	(n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.
Import of Punjab	(n-1) contingency of ICT at Moga
W3 zone Injection	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section
*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 May 2013 to 31st May 2013	00-17	4600*	500	4100	3200	900	LTA revised due to commissioning of CGPL Unit-50
		23-24			4100		900	
NER	1st May 2013 to 31st May 2013	00-17	475	35	440	230	210	
		23-24	475		440		210	
WR								
SR#	1st May 2013 to 31st May 2013	00-05	2000	0	2000	1112	888	Review of TTC due to change in Load Generation scenario and also change in LTA quantum.
		10-19	2000		2000		888	

* Would be reviewed after completion of augmentation works at 765 kV Agra

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 May 2013 to 31st May 2013	00-17	2900	350	2550	2143	407	
		23-24			2550		407	
NR	1st May 2013 to 31st May 2013	00-17	2500	200	2300	286	2014	
		23-24	2600		2400		2114	
NER	1st May 2013 to 31st May 2013	00-17	520	100	420	0	420	
		23-24	320		220		220	
WR								
SR	1st May 2013 to 31st May 2013	00-17	1700	0	1700	197	1503	
		23-24	1700		1700		1503	

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 765/400 kV ICT at Agra*
	Export	(n-1) contingency of 400kV Bina(PG)-Bina(MP) (n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I (n-1) contingency of 400 kV Farakka-Malda*
	Export	(n-1) contingency of 220 kV Samaguri – Saruajai I* (n-1) contingency of 400 kV Balipara-Bongaigaon-I
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 400 kV Farakka-Malda (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) 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	5637	5311	2111	2126
2	Haryana	5363	5014	3289	3289
3	Rajasthan	6574	5912	3466	3472
4	Delhi	4605	3932	1416	1416
5	Uttar Pradesh	10824	10831	6163	5976
6	Jammu & Kashmir	1825	1671	604	592
7	Uttarakhand	1476	1081	757	673
8	Himachal Pradesh	1043	943	590	493
9	Chandigarh	227	192	0	0
10	ISGS			16916	14627
	Total NR	37574	34888	35312	32663
II	EASTERN REGION				
1	West Bengal	6658	5280	4836	3678
2	Jharkhand	1035	715	483	541
3	Orissa	3597	2530	2451	1611
4	Bihar	1743	1430	101	101
5	Damodar Valley Corporation	2461	2310	2954	2954
6	Sikkim	45	45	0	0
7	Bhutan	112	112	275	260
8	ISGS			7384	5854
	Total ER	15651	12422	18484	14999
III	WESTERN REGION				
1	Chattisgarh	2977	2132	2518	1985
2	Madhya Pradesh	7112	4894	3601	2802
3	Maharashtra	15798	12916	13113	9454
4	Gujarat	10470	8369	10918	7764
5	Goa	327	198		
6	Daman and Diu	260	181		
7	Dadra and Nagar Haveli	612	479		
8	ISGS			13063	11996
	Total WR	37556	29169	43213	34001
IV	SOUTHERN REGION				
1	Andhra Pradesh	10283	9413	7290	6560
2	Tamil Nadu	10813	9100	6050	5408
3	Karnataka	8503	7453	4779	4233
4	Kerala	3254	2414	2007	794
5	Pondy	313	241		
6	Goa	84	84		
7	ISGS			10846	10049
	Total SR	33250	28705	30972	27044
V	NORTH-EASTERN REGION				
1	Manipur	110	203	0	0
2	Meghalaya	290	53	95	80
3	Mizoram	75	84	4	0
4	Nagaland	120	168	8	6
5	Assam	1320	880	190	180
6	Tripura	240	1537	85	85
7	Arunachal Pradesh	110	924	0	0
8	ISGS	0	0	1013	577
	Total NER	2265	3848	1395	928
	Total All India	126297	109032	129376	109635