

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

Issue Date: 03/05/2013

Issue Time: 2330 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 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	
	3rd May 2013 to 7th May 2013	08-24'	1450	300	1150	0	1150	Revised due to shutdown of 400 kV Sterlite-Raigarh (LILO 1) and 400 kV Raigarh-Rourkela 1
	8th May 2013	00-24	1450	300	1150	0	1150	
	9th May 2013 to 31st 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		
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	
	3rd May 2013 to 7th May 2013	08-24'	800	300	500	500	0	
	8th May 2013	00-24	800	300	500	500	0	
	9th May 2013 to 31st May 2013	00-18	800	300	500	500	0	
	18-24	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 2nd 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	
	3rd May 2013 to 31st May 2013	00-05	1000	0	1000	112	888	
		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	
		17-23	700		700		503	

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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						
		17-23	475		440			
NER-ER	1st May 2013 to 31st May 2013	00-17	520	100	420	0	420	
		23-24						
		17-23	320		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 3rd May 2013	00-17, 23-24	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.
		17-23	9500		9300		2430	
	4th May 2013	00-10	9000	200	8800	6870	1930	Revised due to emergency shutdown of 400 kV Raipur-Wardha ck2 on 4th May 2013
		10-16'	8550		8350		1480	
		16-17	9000		8800		1930	
		17-23	9500		9300		2430	
	5th May 2013 to 3rd May 2013	00-17, 23-24	9000	200	8800	6870	1930	
		17-23	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  
^ additional 200 MW can be transferred to SR if injection point is South odisha.

**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) Coningency 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 23-24	4600*	500	4100	3200	900	LTA revised due to commissioning of CGPL Unit-50
		17-23			4100		900	
NER	1st May 2013 to 31st May 2013	00-17 23-24	475	35	440	230	210	Revised due to change in load generation Balance.
		17-23			440		210	
WR								
SR	1st May 2013 to 2nd May 2013	00-05 10-19	2000	0	2000	1112	888	Review of TTC due to change in Load Generation scenario and also change in LTA quantum.
		05-10 19-24	2000		2000		888	
	3rd May 2013 to 31st May 2013	00-05 10-19	2000	0	2000	1112	888	
		05-10 19-24	2000^		2000^		888^	

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

^ additional 200 MW can be transferred to SR if injection point is South odisha.

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

### Limiting Constraints

NR	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 765/400 kV ICT at Agra*
	<b>Export</b>	(n-1) contingency of 400kV Bina(PG)-Bina(MP) (n-1) contingency of 400 kV Allahabad-Pusaui
NER	<b>Import</b>	High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I (n-1) contingency of 400 kV Farakka-Malda*
	<b>Export</b>	(n-1) contingency of 220 kV Samaguri – Saruajai I* (n-1) contingency of 400 kV Balipara-Bongaigaon-I
SR	<b>Import</b>	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*
	<b>Export</b>	(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
<b>ER-NR + ER-NER</b>	<b>Export</b>	(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)
<b>I</b>	<b>NORTHERN REGION</b>				
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
	<b>Total NR</b>	<b>37574</b>	<b>34888</b>	<b>35312</b>	<b>32663</b>
<b>II</b>	<b>EASTERN REGION</b>				
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
	<b>Total ER</b>	<b>15651</b>	<b>12422</b>	<b>18484</b>	<b>14999</b>
<b>III</b>	<b>WESTERN REGION</b>				
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
	<b>Total WR</b>	<b>37556</b>	<b>29169</b>	<b>43213</b>	<b>34001</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
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
	<b>Total SR</b>	<b>33250</b>	<b>28705</b>	<b>30972</b>	<b>27044</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
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
	<b>Total NER</b>	<b>2265</b>	<b>3848</b>	<b>1395</b>	<b>928</b>
	<b>Total All India</b>	<b>126297</b>	<b>109032</b>	<b>129376</b>	<b>109635</b>