

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

Issue Date: 28/03/2013

Issue Time: 1300 hrs

Revision No. 18

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 March 2013 to 5th March 2013	00-24	1500	200	1300	286	1014	
	6th March 2013	00-07, 19-24	1500	200	1300	286	1014	Revised due to shutdown of 400 kV Zerda-Kankroli on 06.03.13.
		07-19'	1300		1100		814	
	7th March 2013 to 8th March 2013	00-24	1500	200	1300	286	1014	Revised due to Cancellation of 400 kV Zerda-Bhinmal shutdown on 07.03.13.
	9th March 2013	00-24'	1500	200	1300	286	1014	Revised due to Cancellation of Agra-Gwalior-Bina shutdown.
	10th March 2013	00-03	1500	200	1300	286	1014	Revised due to upgradation work of Agra-Gwalior-Bina. The upgradation work would be carried out in different stages from 9th March to 25th March 2013
		03-24'	1300		1100		814	
11th March 2013 to 25th March 2013	00-24	1300	200	1100	286	814		
26th March 2013 to 31st March 2013	00-24	1500	200	1300	286	1014		
WR-NR	1st March 2013 to 5th March 2013	00-24	2000	200	1800	1040	760	Review and dynamic studies carried out to reassess transfer capability
	6th March 2013	00-07, 19-24	2000	200	1800	1040	760	Revised due to shutdown of 400 kV Zerda-Kankroli on 06.03.13.
		07-19'	1800		1600		560	
	7th March 2013 to 8th March 2013	00-24	2000	200	1800	1040	760	Revised due to Cancellation of 400 kV Zerda-Bhinmal shutdown on 07.03.13.
	9th March 2013	00-24'	2000	200	1800	1040	760	Revised due to Cancellation of Agra-Gwalior-Bina
	10th March 2013	00-03	2000	200	1800	1040	760	Revised due to upgradation work of Agra-Gwalior-Bina. The upgradation work would be carried out in different stages from 9th March to 25th March 2013
		03-24'	1500		1300		260	
	11th March 2013 to 25th March 2013	00-24	1500	200	1300	1040	260	
26th March 2013	00-24	2000	200	1800	1040	760		
27th March 2013 to 31st March 2013	00-24	2000	200	1800	1287	513	LTA revised due to commissioning of CGPL Unit-50.	
NR-ER	1st March 2013 to 31st March 2013	00-17, 23-24	800	200	600	0	600	
		17-23	900		700		700	
ER-NR	1st March 2013 to 4th March 2013	00-17, 23-24	2500	300	2200	1900	300	Revised due to shutdown of 400 kV Kahalgaon-Biharsharif I
		17-23				1900	300	
	5th March 2013	00-09	2500	300	2200	1900	300	
		09-24'	2200		1900	0		
	6th March 2013	00-24	2200	300	1900	1900	0	
		00-18	2200		1900	0		
7th March 2013	18-24	2500	300	2200	1900	300		
	00-17, 23-24	2500		2200	1900	300		
8th March 2013 to 31st March 2013	17-23	2500	300	2200	1900	300		
W3-ER	1st March 2013 to 31st March 2013	00-24	1400	300	1100	0	1100	
ER-W3	1st March 2013 to 31st March 2013	00-24	1000	300	700	650	50	
WR-SR	1st March 2013 to 31st March 2013	00-24	1000	0	1000	992	8	
SR-WR	1st March 2013 to 31st March 2013	00-24	1000	0	1000	0	1000	

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ER-SR	1st March 2013 to 9th March 2013	00-05 10-19	950	0	950	170	780	Review of TTC due to change in load generation scenario	
		05-10 19-24	950*		950*		780*		
		00-05 1030-19	950		950		780		
	10th March 2013 to 11th March 2013	05-0830 19-24	950*	0	950*	170	780*	Revised due to shutdown of 400kV Vijayawada-Nellore D/C for chariot crossing.	
		0830-1000	750		250		80		
		1000-1030'	250		250		80		
		00-05 10-19	950		950		780		
	12th March 2013	05-10 19-24	950*	0	950*	170	780*		
		00-05 10-19	950		950		780		
		00-05 10-19	950^		950^		780^		
	13th March 2013 to 21st March 2013	05-10 19-24	950^^	0	950^^	170	780^^		
		00-05 10-19	950^		950^		780^		
		00-05 10-19	950^		950^		780^		
	22nd March 2013 to 23rd March 2013	06-10'	750^^	0	750^^	170	580^^	Revised due to Shutdown of Gazuwaka HVDC Back To Back Ploe-1	
10-19'		750^	750^		580^				
05-06 19-24		950^^	950^^		780^^				
00-05 10-19		950^	950^		780^				
24th March 2013 to 31st March 2013	05-10 19-24	950^^	0	950^^	170	780^^			
	00-05 10-19	950^		950^		780^			
	00-17 23-24	700		700		503			
SR-ER	1st March 2013 to 31st March 2013	17-23	700	0	700	197	503		
		00-17 23-24	700		700		503		
		00-17 23-24	400		35		365		228
ER-NER#	1st March 2013 to 28th March 2013	17-23	400	35	365	228	137		
		00-17 23-24	475		440	228	212		
		17-23	475		440	228	212		
NER-ER#	1st March 2013 to 27th March 2013	00-17 23-24	510	100	410	0	410		
		17-23	280		180		180		
		00-10, 15-17, 23-24	510		410		0		410
	28th March 2013	10-15'	330	100	230	0	230	Revised due to shutdown of 400 kV Binaguri-Bongaigaon	
		17-23	280		180		180		
		00-17 23-24	510		410		0		410
	29th March 2013 to 30th March 2013	17-23	280	100	180	0	180		
		00-10, 15-17, 23-24	510		410		0		410
		10-15'	330		230		230		
	31st March 2013	17-23	280	100	180	0	180	Revised due to shutdown of 400 kV Binaguri-Bongaigaon	
		00-10, 15-17, 23-24	510		410		0		410
		10-15'	330		230		230		
S1-S2	1st March 2013 to 31st March 2013	00-24	5800	200	5600	4400	1200		
Import of Punjab	1st March 2013 to 31st March 2013	00-24	5400	300	5100	3243	1857		
Import TTC for DD & DNH	1st March 2013 to 31st March 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			

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W3 zone Injection	1st March 2013 to 12th March 2013	00-17, 23-24	8000	200	7800	6413	1387	6413 MW corresponds to maximum effective LTA from W3. Export Margin from W3 would vary as per the maintenance schedule of generators in the zone.
		17-23	8500		8300		1887	
	13th March 2013 to 14th March 2013	00-08, 23-24	8000	200	7800	6413	1387	Revised due to shutdown of 400kV Bhilai-Koradi on 13.3.13 & 14.3.13 for stringing work of upcoming 765 kV Raipur Pooling Station.
		08-17'	7600		7400		987	
		17-18'	8100		7900		1487	
		18-23	8500		8300		1887	
	15th March 2013 to 20th March 2013	00-17, 23-24	8000	200	7800	6413	1387	
		17-23	8500		8300		1887	
	21st March 2013	00-07, 23-24	8000	200	7800	6413	1387	Revised due to shut down of 400kV Raipur-Bhilai and 400kV Raipur-Bhadrawati-1
		07-17'	7600		7400		987	
		17-19'	8100		7900		1487	
		19-23	8500		8300		1887	
	22nd March 2013 to 27th March 2013	00-17, 23-24	8000	200	7800	6413	1387	
		17-23	8500		8300		1887	
	28th March 2013	00-07, 23-24	8000	200	7800	6413	1387	Revised due to shut down of 400kV Raipur-Bhilai and 400kV Raipur-Bhadrawati-1
		07-17'	7600		7400		987	
		17-19'	8100		7900		1487	
		19-23	8500		8300		1887	
	29th March 2013 to 31st March 2013	00-17, 23-24	8000	200	7800	6413	1387	
		17-23	8500		8300		1887	

- 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 and would be operational wef 0000 hrs of 18th September 2012  
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  
\* additional 250 MW can be transferred to SR if injection point is South Odisha  
^ additional 100 MW can be transferred to SR if injection point is South Odisha  
^^ additional 350 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 400 kV Bina-Satna leading to high loading of 765/ 400 kV Bina transformer
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
W3-ER	(n-1) contingency of 400 kV Sterlite-Rourkela
ER-W3	High loading of 400 kV Raipur-Wardha, 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
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*
SI-S2	(n-1) contingency of 400 kV Hosur-Salem line
Import of Punjab	(n-1) contingency of ICT at Moga
W3 zone export TTC	(n-1) contingency of 400 kV Raipur-Wardha and High loading of 400 kV Bhilai-Koradi

\*Primary constraints

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**Simultaneous Import Capability**

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<b>ER</b>								
<b>NR</b>	1st March 2013 to 4th March 2013	00-17	4500	500	4000	2940	1060	Review and dynamic studies carried out to reassess transfer capability
		23-24			4000		1060	
	5th March 2013	00-09	4500	500	4000	2940	1060	1. Revised due to shutdown of 400 kV Kahalgaon-Biharsharif
		09-24'	4200		3700		760	
	6th March 2013	00-07, 19-24	4200	500	3700	2940	760	1. Shutdown of 400 kV Zerda-Kankroli on 06.03.13. 3.Revised due to Cancellation of 400 kV Zerda-Bhinmal shutdown on 07.03.13.
		07-19'	4000		3500		560	
	7th March 2013	00-18'	4200	500	3700	2940	760	
		18-24'	4500		4000		1060	
	8th March 2013	00-24	4500		4000		1060	
	9th March 2013	00-24	4500		4500		1560	Revised due to Cancellation of Agra-Gwalior-Bina shutdown.
	10th March 2013	00-03	4500	500	4000	2940	1060	Revised due to upgradation work of Agra-Gwalior-Bina. The upgradation work would be carried out in different stages from 9th March to 25th March 2013.
		03-24'	4000		3500		560	
	11th March 2013 to 25th March 2013	00-24	4000		3500		560	
	26th March 2013	00-17	4500	500	4000	2940	1060	Review and dynamic studies carried out to reassess transfer capability
23-24		4000			1060			
27th March 2013 to 31st March 2013	00-17	4500	500	4000	3187	813	LTA revised due to commissioning of CGPL Unit-50.	
	23-24			4000		813		
1st March 2013 to 28th March 2013	00-17	400	35	365	228	137		
	23-24			365		137		
29th March 2013 to 31st March 2013	00-17	475	35	440	228	212	Revised due to Load Generation Balance	
	23-24			440		212		
<b>WR</b>								
<b>SR</b>	1st March 2013 to 31st March 2013	00-05 10-19	1950	0	1950	1162	788	Review of TTC due to change in load generation scenario
		05-10 19-24			1950*		788*	
	10th March 2013 to 11th March 2013	00-05 1030-19	1950	0	1950	1162	788	Revised due to shutdown of 400kV Vijayawada-Nellore D/C for chariot crossing.
		05-0830 19-24	1950*		1950*		788*	
		0830-10	1750		1750		588	
	12th March 2013	1000-1030'	1250		1250		88	
		00-05 10-19	1950	0	1950	1162	788	
	05-10 19-24	1950*	1950*		788*			
	13th March 2013 to 21st March 2013	00-05 10-19	1950^	0	1950^	1162	788^	
		05-10 19-24	1950^^		1950^^		788^^	
	22nd March 2013 to 23rd March 2013	00-05	1950^	0	1950^	1162	788^	Revised due to Shutdown of Gazuwaka HVDC Back To Back Ploe-1
		06-10'	1750^^		1750^^		588^	
		10-19'	1750^		1750^		588^	
		05-06 19-24	1950^^		1950^^		788^^	
24th March 2013 to 31st March 2013	00-05 10-19	1950^	0	1950^	1162	788^		
	05-10 19-24	1950^^		1950^^		788^^		

\* additional 250 MW can be transferred to SR if injection point is South Odisha  
^ additional 100 MW can be transferred to SR if injection point is South Odisha  
^^ additional 350 MW can be transferred to SR if injection point is South Odisha

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**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
<b>ER-NR + ER-NER #</b>	1st March 2013 to 31st March 2013	00-17 23-24	2775	350	2425	2132	293	Revised due to Load Generation Balance
		17-23	2775		2425	2132	293	
<b>NR</b>	1st March 2013 to 31st March 2013	00-17 23-24	2300	200	2100	286	1814	Revised due to Shutdown of 400 kV Zerda-Kankroli on 06.03.13 & 400 kV Zerda-Bhinmal on 7.03.13.  Revised due to Cancellation of 400 kV Zerda-Bhinmal shutdown on 07.03.13.  Revised due to Cancellation of Agra-Gwalior-Bina shutdown.  Revised due to upgradation work of Agra-Gwalior-Bina. The upgradation work would be carried out in different stages from 9th March to 25th March 2013
		17-23	2400		2200		1914	
	6th March 2013	00-07 23-24	2300	200	2100	286	1814	
		07-17'	2100		1900		1614	
		17-19	2200		2000		1714	
		19-23'	2400		2200		1914	
	7th March 2013 to 8th March 2013	00-17 23-24	2300	200	2100	286	1814	
		17-23	2400		2200		1914	
	9th March 2013	00-17 23-24	2300	200	2100	286	1814	
		17-23	2400		2200		1914	
	10th March 2013	00-03	2300	200	2100	286	1814	
		03-17 23-24	2100		1900		1614	
		17-23	2200		2000		1714	
	11th March 2013 to 25th March 2013	00-17 23-24	2100	200	1900	286	1614	
17-23		2200	2000		1714			
26th March 2013 to 31st March 2013	00-17 23-24	2300	200	2100	286	1814		
	17-23	2400		2200		1914		
<b>NER#</b>	1st March 2013 to 27th March 2013	00-17 23-24	510	100	410	0	410	
		17-23			280		180	180
	28th March 2013	00-10, 15-17, 23-24	510	100	410	0	410	
		10-15'	330		230		230	
		17-23	280		180		180	
	29th March 2013 to 30th March 2013	00-17 23-24	510	100	410	0	410	
		17-23	280		180		180	
	31st March 2013	00-10, 15-17, 23-24	510	100	410	0	410	
		10-15'	330		230		230	
		17-23	280		180		180	
	<b>WR</b>							
	<b>SR</b>	1st March 2013 to 31st March 2013	00-17 23-24	1700	0	1700	197	1503
17-23			1700	1700		1503		

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**Limiting Constraints**

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Malda*
	<b>Export</b>	(n-1) contingency of 400 kV Bina-Satna leading to high loading of 765/ 400 kV Bina transformers* (n-1) contingency of 400kV Bina(PG)-Bina(MP) (n-1) contingency of 400 kV Pusauli-Biharsharif
<b>NER</b>	<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
<b>SR</b>	<b>Import</b>	(n-1) Coningency of 400kV Gooty-Somanhalli & 400kV Gooty-Nelamangala line (n-1) contingency of 400 kV Rourkela-Talcher* Bhadrawati HVDC B/B link capacity (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*

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## **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	5678	4250	2437	2318
2	Haryana	5592	4591	3623	3623
3	Rajasthan	7243	6793	4084	4089
4	Delhi	4090	3299	1206	1206
5	Uttar Pradesh	10774	9516	6020	5839
6	Jammu & Kashmir	1800	1359	333	339
7	Uttarakhand	1365	1100	523	302
8	Himachal Pradesh	1043	959	218	131
9	Chandigarh	188	86	0	0
10	ISGS			16384	11062
	<b>Total NR</b>	<b>37773</b>	<b>31952</b>	<b>34828</b>	<b>28910</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6457	5456	4744	4088
2	Jharkhand	964	650	354	354
3	Orissa	3009	2300	1710	1611
4	Bihar	1805	1450	101	101
5	Damodar Valley Corporation	2303	2000	2954	2954
6	Sikkim	44	44	0	0
7	Bhutan	112	112	245	245
8	ISGS			6505	5995
	<b>Total ER</b>	<b>14694</b>	<b>12012</b>	<b>16613</b>	<b>15348</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	3153	2242	2518	2025
2	Madhya Pradesh	7200	5146	3443	2802
3	Maharashtra	15717	13582	13113	9454
4	Gujarat	10497	8800	9933	7564
5	Goa	420	280		
6	Daman and Diu	252	190		
7	Dadra and Nagar Haveli	602	504		
8	ISGS			11920	11796
	<b>Total WR</b>	<b>37841</b>	<b>30744</b>	<b>40927</b>	<b>33641</b>

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## **ASSUMPTIONS IN BASECASE**

<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10835	9993	8217	6817
2	Tamil Nadu	10456	8310	5148	4619
3	Karnataka	8521	7469	5482	4397
4	Kerala	3314	2209	2248	645
5	Pondy	320	231		
6	Goa	84	84		
7	ISGS			10955	10772
	<b>Total SR</b>	<b>33530</b>	<b>28296</b>	<b>32050</b>	<b>27250</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	100	70	0	0
2	Meghalaya	280	196	99	71
3	Mizoram	70	49	4	3
4	Nagaland	110	77	11	10
5	Assam	1230	840	222	203
6	Tripura	221	155	94	91
7	Arunachal Pradesh	105	74	0	0
8	ISGS	0	0	934	499
	<b>Total NER</b>	<b>2116</b>	<b>1461</b>	<b>1364</b>	<b>877</b>
	<b>Total All India</b>	<b>125954</b>	<b>104465</b>	<b>125782</b>	<b>106026</b>