

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

Issue Date: 11/06/2013

Issue Time: 1245 hrs

Revision No. 10

# against any corridor indicates that revision has been done for this corridor

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)	Changes in TTC w.r.t. Last Revision	Comments	
NR-WR	1st June 2013 to 30th June 2013	00-24	2500	500	2000	286	1714		Revised due to commissioning of 765 kV Agra-Jhatikara.	
WR-NR <sup>1</sup>	1st June 2013 to 9th June 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2787 <sup>Δ</sup>	2413		Revised due to commissioning of 765 kV Agra-Jhatikara.	
	10th June 2013	00-08'	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2787 <sup>Δ</sup>	2413		Revised due to deferrment of 765 kV Agra-Jhatikara Shutdown.	
		08-24'	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2787 <sup>Δ</sup>	2413			
	11th June 2013	00-07'	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2787 <sup>Δ</sup>	2413		Revised due to Shutdown of 765 kV Agra-Jhatikara.	
		07-24'	3100 <sup>Δ</sup>	300	2800 <sup>Δ</sup>	2787 <sup>Δ</sup>	13			
	12th June 2013	00-24	3100 <sup>Δ</sup>	300	2800 <sup>Δ</sup>	2787 <sup>Δ</sup>	13			
13th June 2013 to 30th June 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2787 <sup>Δ</sup>	2413		Revised due to commissioning of 765 kV Agra-Jhatikara.		
NR-ER	1st June 2013 to 30th June 2013	00-17 23-24	1000	200	800	0	800			
		17-23	1100		900		900			
ER-NR	1st June 2013	00-09	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1	
		09-18'	3000	300	2700	1913	787			
		18-24	3600	300	3300	1913	1387			
	2nd June 2013	00-24	3600	300	3300	1913	1387			
		3rd June 2013	00-09	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 2
			09-18'	3000	300	2700	1913	787		
	4th June 2013	00-09	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff ckt-1.	
		09-18'	3000	300	2700	1913	787			
	5th June 2013	00-09	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff ckt-1.	
		09-18'	3000	300	2700	1913	787			
	6th June 2013 to 30th June 2013	00-17 23-24	3600	300	3300	1913	1387			
		17-23				1913	1387			
W3-ER	1st June 2013 to 30th June 2013	00-24	1650	300	1350	0	1350			
ER-W3	1st June 2013 to 30th June 2013	00-24	1000	300	700	700	0			
WR-SR	1st June 2013 to 15th June 2013	00-24	1000	0	1000	1000	0		Revised due to change in LTA/MTOA quantum.	
	16th June 2013 to 30th June 2013	00-24	1000	0	1000	1000	0			
SR-WR	1st June 2013 to 30th June 2013	00-24	1000	0	1000	0	1000			
ER-SR	1st June 2013 to 15th June 2013	00-05	1000	0	1000	112	888		Revised considering present loading of 400KV Rourkela-Talcher D/C	
		10-19								
		05-10 19-24	1000		1000		888			
	16th June 2013 to 30th June 2013	00-05	1000	0	1000	612	388			
10-19 05-10 19-24		1000	1000		388					
SR-ER	1st June 2013 to 30th June 2013	00-17 23-24	700	0	700	197	503			
		17-23	700		700		503			

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ER-NER#	1st June 2013 to 8th June 2013	00-07 18-24	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt 2
		07-18'	400		365	230	135		
	9th June 2013 to 11th June 2013	00-24	575	35	540	230	310		
		00-08 18-24	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt 2
	08-18'	400	365		230	135	175		
17th June 2013 to 30th June 2013	00-24	575	35	540	230	310			
	00-17 23-24	520	100	420	0	420			
17-23	320								220
S1-S2	1st June 2013 to 15th June 2013	00-24	5400	200	5200	3800	1400		Revised due to Non-commissioning Kudamkulam unit-1 and change in LTA quantum as Talcher unit-4 has gone under annual maintenance from 00:00 Hrs of 27.05.2013 to 30.06.2013.
		00-24	5400	200	5200	4500	700		
Import of Punjab	1st June 2013 to 30th June 2013	00-24	5600	300	5300	3350	1950		
Import TTC for DD & DNH	1st June 2013 to 30th June 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st June 2013	00-08	9000	200	8800	6830	1970		Revised due to shutdown of 400 kV Raipur-Wardha D/C from 01st June 2013 to 2nd June 2013
		08-17' 23-24	8000		7800		970		
		17-23	8500		8300		1470		
	2nd June 2013	00-17	8000	200	7800	6830	970		
		17-19	8500		8300		1470		
		19-23	9500		9300		2470		
		23-24	9000		8800		1970		
	3rd June 2013 to 15th June 2013	00-17, 23-24	9000	200	8800	6830	1970		
		17-23	9500		9300		2470		
	16th June 2013 to 30th June 2013	00-17, 23-24	9000	200	8800	7630	1170		
		17-23	9500		9300		1670		

- 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

Δ. includes 1500 MW on the dedicated Mundra-Mohindergarh HVDC bipole of M/s Adani Power Limited which is scheduled separately from the generation at stage-III of APL Mundra (3\*660 MW).

**I. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:**

- 765 kV Agra-Jhatikara
- One of the 765/400 kV 1500 MVA ICT at Agra
- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

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**Limiting Constraints**

Corridor	Constraint
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
<b>WR-NR</b>	(n-1) contingency of 765/400 kV ICT at Agra
<b>NR-ER</b>	(n-1) contingency of 400 kV Allahabad-Pusaui
<b>ER-NR</b>	Outage in 400 kV Purnea-Muzaffarpur Section
<b>W3-ER</b>	(n-1) contingency of either 400 kv Mejia-Maithon or (n-1) contingency of 400 kv MPL -maithon
<b>ER-W3</b>	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
<b>WR-SR</b>	Bhadrawati HVDC B/B link capacity
<b>SR-WR</b>	Bhadrawati HVDC B/B link capacity
<b>ER-SR</b>	(n-1) contingency of 400 kV Rourkela-Talcher
<b>SR-ER</b>	
<b>ER-NER</b>	(n-1) contingency of 400 kV Farakka-Malda* High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon
<b>NER-ER</b>	(n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 220 kV Samaguri – Sarujai I*
<b>S1-S2</b>	(n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.
<b>Import of Punjab</b>	(n-1) contingency of ICT at Patiala/Moga
<b>W3 zone Injection</b>	(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)	Changes in TTC w.r.t. Last Revision	Comments
<b>ER</b>									
<b>NR<sup>1</sup></b>	1st June 2013	00-09	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300	4200		
		09-18'	8700 <sup>Δ</sup>	800	7900 <sup>Δ</sup>	4300	3600		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
		18-24	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300	4200		
	2nd June 2013	00-24	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300	4200		
	3rd June 2013	00-09	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300	4200		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 2
		09-18'	8700 <sup>Δ</sup>	800	7900 <sup>Δ</sup>	4300	3600		
		18-24	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300	4200		
	4th June 2013	00-09	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300	4200		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
		09-18'	8700 <sup>Δ</sup>	800	7900 <sup>Δ</sup>	4300	3600		
	5th June 2013	00-09	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300	4200		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
		18-24	8700 <sup>Δ</sup>	800	7900 <sup>Δ</sup>	4300	3600		
	6th June 2013 to 09th June 2013	00-24	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300 <sup>Δ</sup>	4200		
	10th June 2013	00-08'	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300 <sup>Δ</sup>	4200		Revised due to deferrment of 765 kV Agra-Jhatikara Shutdown.
		08-24'	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>		4200		
11th June 2013	00-07'	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300 <sup>Δ</sup>	4200		Revised due to Shutdown of 765 kV Agra-Jhatikara.	
	07-24'	6700 <sup>Δ</sup>	600	6100 <sup>Δ</sup>		1400			
12th June 2013	00-24	6700 <sup>Δ</sup>	600	6100 <sup>Δ</sup>	4300 <sup>Δ</sup>	1400			
13th June 2013 to 30th June 2013	00-24	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>	4300 <sup>Δ</sup>	4200			
<b>NER#</b>	1st June 2013 to 08th June 2013	00-07	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt 2
		18-24	400		365	230	135		
	07-18'	400							
	9th June 2013 to 11th June 2013	00-24	575	35	540	230	310		
12th June 2013 to 16th June 2013	00-08	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt 2	
	18-24	400		365	230	135	175		
08-18'	400								
17th June 2013 to 30th June 2013	00-24	575	35	540	230	310			
<b>WR</b>									
<b>SR</b>	1st June 2013 to 15th June 2013	00-05	2000	0	2000	1112	888		Revised due to Non-commissioning Kudamkulam unit-1 and change in LTA quantum as Talcher unit-4 has gone under annual maintenance from 00:00 Hrs of 27.05.2013 to 30.06.2013.
		10-19	2000		2000		888		
	05-10	2000	0	2000	1612	388			
	19-24	2000		2000		388			

Δ. includes 1500 MW on the dedicated Mundra-Mohindergarh HVDC bipole of M/s Adani Power Limited which is scheduled separately from the generation at stage-III of APL Mundra (3\*660 MW).

**I. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:**

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- One of the 765/400 kV 1500 MVA ICT at Agra
- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

**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)	Changes in TTC w.r.t. Last Revision	Comments
NR	1st June 2013 to 30th June 2013	00-17 23-24	3500	700	2800	286	2514		
		17-23	3600		2900		2614		
NER	1st June 2013 to 30th June 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 400 kV Allahabad-Pusauli
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>	(n-1) contingency of 400 kV Rourkela-Talcher* Bhadrawati HVDC B/B link capacity.
	<b>Export</b>	Bhadrawati HVDC B/B link capacity.

\*Primary constraints

## 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>