

**National Load Despatch Centre  
Total Transfer Capability for February 2014**

Issue Date: 07/02/2014

Issue Time: 1300 hrs

Revision No. 9

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 February 2014 to 28th February 2014	00-24	2500	500	2000	286	1714			
WR-NR <sup>1</sup>	1st February 2014 to 28th February 2014	00-17 23-24	3900	500	3400	3181	219			
		17-23	3900		3400	3181	219			
NR-ER *	1st February 2014 to 28th February 2014	00-17 23-24	1000	200	800	200	600			
		17-23	1100		900		700			
ER-NR	1st February 2014	00-07 16-17 23-24	2600	300	2300	2118	182			
		07-16' 17-23	1900		1600		0			
		17-23	1900		1600		0			
		00-17 23-24	2600		2300		182			
	2nd February 2014 to 5th February 2014	00-17 23-24	2600	300	2300	2118	182			
		17-23	1900		1600		0			
	6th February 2014	00-17 23-24	3600	300	3300	2118	1182			
		17-23	3100		2800		682			
	7th February 2014	00-17 23-24	3600	300	3300	2118	1182			
		17-23	3100		2800		682			
	8th February 2014 to 9th February 2014	00-07 23-24	3600	300	3300	2118	1182			
		07-17'	3000		2700		582			-600
17-23		3100	2800		682					
10th February 2014 to 28th February 2014	00-17 23-24	3600	300	3300	2118	1182				
	17-23	3100		2800		682				
W3-ER	1st February 2014 to 08th February 2014	00-24	1800	300	1500	0	1500			
		00-07 18-24	1800	300	1500	0	1500			
	09th February 2014	07-18'	1300	300	1000	0	1000	-500	Revised due to shutdown of 400 kV Jharsuguda-Rourkela 2 and 400 kV SEL-Rourkela 2	
10th February 2014 to 28th February 2014	00-24	1800	300	1500	0	1500				
ER-W3	1st February 2014 to 28th February 2014	00-24	1000	300	700	700	0			
WR-SR	1st February 2014 to 28th February 2014	00-24	850	0	850	850	0			
SR-WR *	1st February 2014 to 28th February 2014	00-24	1000	0	1000	0	1000			
ER-SR	1st February 2014 to 28th February 2014	00-05 10-19	700	0	700	700	0			
		05-10 19-24	700		700		0			
SR-ER *	1st February 2014 to 28th February 2014	00-17 23-24	1100	0	1100	197	903			
		17-23	1100		1100		903			
ER-NER <sup>2</sup>	1st February 2014	00-07 16-17 23-24	350	50	300	230	70			
		07-16' 17-23	320		270		40			
		17-23	330		280		50			
		00-17 23-24	350		300		70			
	2nd February 2014 to 5th February 2014	00-17 23-24	350	50	300	230	70			
		17-23	330		280		50			
	6th February 2014	00-17 23-24	720	50	670	230	440			
		17-23	640		590		360			
	7th February 2014	00-17 23-24	720	50	670	230	440			
		17-23	640		590		360			
	8th February 2014 to 9th February 2014	00-07 23-24	720	50	670	230	440			
		07-17'	500		450		220			-220
17-23		640	590		360					
10th February 2014 to 28th February 2014	00-17 23-24	720	50	670	230	440				
	17-23	640		590		360				
NER-ER	1st February 2014 to 28th February 2014	00-17 23-24	570	100	470	0	470			
		17-23	570		470		470			
S1-S2	1st February 2014 to 28th February 2014	00-24	5650	400	5250	4900	350			
Import of Punjab	1st February 2014 to 28th February 2014	00-24	5600	300	5300	3800	1500			
Import TTC for DD & DNH	1st February 2014 to 28th February 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule				

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W3 zone Injection	1st February 2014	00-08 23-24	8500	200	8300	7630	670		
		08-16'	7600		7400		-230		
		16-17	8600		8400		770		
		17-18	9100		8900		1270		
		18-23	9500		9300		1670		
		00-08 23-24	8500		8300		670		
	2nd February 2014 to 28th February 2014	08-16'	8000	7800	170				
		16-17	9000	8800	1170				
		17-23	9500	9300	1670				
		00-08 23-24	8500	8300	670				
		08-16'	8000	7800	170				
		16-17	9000	8800	1170				

\* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

- 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, k) KSK Mahanadi, L)DB Power, m) KWPCCL

# The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be less. RLDC/ NLDC would factor this situation while issuing STOA approvals

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

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

**2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.**

**Limiting Constraints**

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
W3-ER	(n-1) contingency of 400kV Sterlite-Rourkela S/C
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 Raigarh-Sterlite
WR-SR & ER-SR	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO) 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	
ER-NER	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
NER-ER	(n-1) contingency of 400 kV Farakka-Malda
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1) contingency of 400 kV 400 kV Raipur-Wardha

\*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 February 2014	00-07	6500	800	5700	5299	401		
		16-17					0		
		23-24					0		
		07-16'	5800		5000				
		17-23	5800		5000				
	2nd February 2014 to 5th February 2014	00-17	6500	800	5700	5299	401		
		23-24					0		
		17-23	5800		5000				
		00-17	7500	800	6700	5299	1401		
	23-24	901							
	6th February 2014	17-23	7000		6200				
		00-17	7500	800	6700	5299	1401		
	23-24	901							
	7th February 2014	17-23	7000		6200				
00-07		7500	800	6700	5299	1401			
23-24	801					-600	Revised due to shutdown of 400 kV Purnea-Muzaffarpur D/C		
07-17'	6900						6100		
8th February 2014 to 9th February 2014	17-23	7000		6200					
	00-17	7500	800	6700	5299	1401			
23-24	901								
10th February 2014 to 28th February 2014	17-23	7000		6200					
	00-07	350	50	300	230	70			
16-17	40								
23-24	50								
	07-16'	320		270					
	17-23	330		280					
2nd February 2014 to 5th February 2014	00-17	350	50	300	230	70			
	23-24					50			
	17-23	330		280					
	00-17	720	50	670	230	440			
23-24	360								
6th February 2014	17-23	640		590					
	00-17	720	50	670	230	440			
23-24	220					-220	Revised due to shutdown of 400 kV Purnea-Muzaffarpur D/C		
7th February 2014	17-23	640		590					
	00-07	720	50	670	230	440			
23-24	220					-220	Revised due to shutdown of 400 kV Purnea-Muzaffarpur D/C		
07-17'	500						450		
8th February 2014 to 9th February 2014	17-23	640		590					
	00-17	720	50	670	230	440			
23-24	360								
10th February 2014 to 28th February 2014	17-23	640		590					
	00-05	1550	0	1550	1550	0			
10-19	0								
05-10	0								
	19-24	1550		1550					
	00-05	1550	0	1550	1550	0			
10-19	0								
05-10	0								
19-24	1550		1550						
	00-05	1550	0	1550	1550	0			
10-19	0								
05-10	0								
19-24	1550		1550						

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

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

**2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff 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 February 2014 to 28th February 2014	00-17	3500	700	2800	286	2514		
		23-24			2900		2614		
NER	1st February 2014 to 28th February 2014	00-17	570	100	470	0	470		
		23-24			470		470		
WR		17-23	570						
SR*	1st February 2014 to 28th February 2014	00-17	2100	0	2100	197	1903		
		23-24			2100		1903		
		17-23	2100						

\* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

### Limiting Constraints

NR	<b>Import</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	<b>Import</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
	<b>Export</b>	(n-1) contingency of 400 kV Farakka-Malda
SR	<b>Import</b>	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations (LFO) 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
	<b>Export</b>	

\*Primary constraints

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Total Transfer Capability for February 2014**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	06/11/2013	Whole Month	Revised considering the LTA/MTOA on NR-ER Path	NR-ER
2	27/11/2013	Whole Month	Revised due to change in Load Generation in WR/NR	WR-NR
			Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea.	ER-NR/ER-NER
			Revised due to change in Inter-Regional flow pattern and Load generation change in ER/WR.	W3 Zone Injection
3	22/01/2014	Whole Month	Revised due to commissioning of 765kV Raichur-Sholapur S/C	WR-SR/ER-SR
4	29/01/2014	01.02.14 - 06.02.14	Revised due to shutdown of 400kV Kahalgaon-Biharshariff D/C	ER-NR/ER-NER
		07.02.14 - 28.02.14	Revised due to shutdown of TEESTA Power Station	ER-NR
		Whole Month	Revised due to Non-Commissioning of Kudankulam U-1, Vallur U-3 & NLC Exp U-1	S1-S2
5	30/01/2014	01.02.14 - 06.02.14	Revised due to change in ER and Inter-regional flow pattern.	ER-NER/ER-NR
6	31/01/2014	01.02.14	Revised due to shutdown of 400kV Seoni-Bhilai	W3 Zone Injection
7	31/01/2014	01.02.14	Revised due to shutdown of Purnea-Malda ckt-1	ER-NER/ER-NR
8	05/02/2014	06.02.14 - 28.02.14	Revised due to restoration of 400 kV Kahalgaon-Biharshariff D/C	ER-NER/ER-NR
9	07/02/2014	08.02.14 - 09.02.14	Revised due to shutdown of 400 kV Purnea-Muzaffarpur D/C	ER-NR / ER-NER
		09.02.14	Revised due to shutdown of 400 kV Jharsuguda-Rourkela 2 and 400 kV SEL-Rourkela 2	W3-ER