

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

Issue Date: 21/02/2014

Issue Time: 2000 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)	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 11th February 2014	00-17 23-24	3900	500	3400	3181	219	
		17-23	3900	3400		3181	219		
12th February 2014		00-17 23-24	4200	500	3700	3569	131		
		17-23	4200		3700	3569	131		
13th February 2014		00-08 12-24	4200	500	3700	3656	44		
		08-12 <sup>2</sup>	3200		2700	3656	0		
14th February 2014 to 20th February 2014		00-17 23-24	4200	500	3700	3656	44		
		17-23	4200		3700	3656	44		
21st February 2014		00-09 23-24	4200	500	3700	3656	44		
		09-17 <sup>3</sup>	3100		2600	3656	0		
		17-23	4200		3700	3656	44		
22nd February 2014 to 28th February 2014		00-17 23-24	4200	500	3700	3656	44		
		17-23	4200		3700	3656	44		
NR-ER *		1st February 2014 to 28th February 2014	00-17 23-24	1000	200	800	200	600	
		17-23	1100	900		200	700		
ER-NR	1st February 2014	00-07 16-17 23-24	2600	300	2300	2118	182		
		07-16 <sup>4</sup>	1900		1600		0		
		17-23	1900		1600		0		
	2nd February 2014 to 5th February 2014	00-17 23-24	2600	300	2300	2118	182		
		17-23	1900		1600	2118	0		
	6th February 2014	00-17 23-24	3600	300	3300	2118	1182		
		17-23	3100		2800	2118	682		
	7th February 2014	00-17 23-24	3600	300	3300	2118	1182		
		17-23	3100		2800	2118	682		
	8th February 2014 to 9th February 2014	00-07 23-24	3600	300	3300	2118	1182		
		07-17 <sup>5</sup>	3000		2700		2118	582	
		17-23	3100		2800		2118	682	
	10th February 2014 to 28th February 2014	00-17 23-24	3600	300	3300	2118	1182		
17-23		3100	2800		2118	682			
W3-ER	1st February 2014 to 08th February 2014	00-24	1800	300	1500	0	1500		
	09th February 2014	00-07 18-24	1800	300	1500	0	1500		
		07-18 <sup>6</sup>	1300	300	1000	0	1000		
	10th February 2014	00-24	1800	300	1500	0	1500		
	11th February 2014	00-09 18-24	1800	300	1500	0	1500		
		09-18 <sup>7</sup>	1500	300	1200	0	1200		
	12th February 2014 to 15th February 2014	00-24	1800	300	1500	60	1440		
	16th February 2014	00-08 19-24	1800	300	1500	60	1440		
08-19 <sup>8</sup>		1600	1300		60	1240			
17th February 2014 to 28th February 2014	00-24	1800	300	1500	60	1440			
ER-W3	1st February 2014 to 28th February 2014	00-24	1000	300	700	700	0		
WR-SR	1st February 2014 to 18th February 2014	00-24	850	0	850	850	0		
	19th February 2014 to 28th February 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st February 2014 to 28th February 2014	00-24	1000	0	1000	0	1000		

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

Issue Date: 21/02/2014

Issue Time: 2000 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)	Changes in TTC w.r.t. Last Revision	Comments	
ER-SR	1st February 2014 to 18th February 2014	00-05 10-19	700	0	700	700	0			
		05-10 19-24	700		700		0			
	19th February 2014 to 28th February 2014	00-05 10-19	750	0	750	657	93			
		05-10 19-24	750		750		93			
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 <sup>1</sup> 17-23	320 330		270 280		40 50			
ER-NER <sup>2</sup>	2nd February 2014 to 5th February 2014	00-17 23-24 17-23	350 330	50	300 280	230	70 50			
	6th February 2014	00-17 23-24 17-23	720 640	50	670 590	230	440 360			
	7th February 2014	00-17 23-24 17-23	720 640	50	670 590	230	440 360			
	8th February 2014 to 9th February 2014	00-07 23-24 07-17 <sup>1</sup> 17-23	720 500 640	50	670 450 590	230	440 220 360			
	10th February 2014 to 19th February 2014	00-17 23-24 17-23	720 640	50	670 590	230	440 360			
	20th February 2014	00-07 07-17 <sup>1</sup> 17-23 23-24	720 650 590 650	50	670 600 540 600	230	440 370 310 370			
	21st February 2014	00-07 23-24 07-17 <sup>1</sup> 17-23	650 580 590	50	600 540	230	370 300 310			
	22nd February 2014 to 23rd February 2014	00-07 23-24 07-17 <sup>1</sup> 17-23	650 650 590	50	600 540	230	370 310	70	Revised because shutdown of 132 kV BTPS-Dhaligaon is not being availed.	
	24th February to 28th February 2014	00-17 23-24 17-23	650 590	50	600 540	230	370 310			
	NER-ER	1st February 2014 to 19th February 2014	00-17 23-24 17-23	570 570	100	470 470	0	470 470		
		20th February 2014	00-07 07-17 23-24 17-23	570 520 450	100	470 420 350	0	470 420 350		
		21st February 2014 to 28th February 2014	00-17 23-24 17-23	520 450	100	420 350	0	420 350		
S1-S2	1st February 2014 to 20th February 2014	00-24	5650	400	5250	4900	350			
	21st February 2014	00-07 19-24 07-19 <sup>1</sup>	5650 5250	400 400	5250 4850	4900 4900	350 0			
	22nd February 2014	00-24	5650	400	5250	4900	350			
	23rd February 2014 to 24th February 2014	00-07 19-24 07-19 <sup>1</sup>	5650 5000	400 400	5250 4600	4900 4900	350 0	-650	Revised due to shutdown of 400kV SV Chathram-Pondy	
	25th 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				
W3 zone Injection	1st February 2014	00-08 23-24	8500	200	8300	7630	670			
		08-16 <sup>1</sup> 16-17 17-18 18-23	7600 8600 9100 9500		7400 8400 8900 9300		-230 770 1270 1670			
		00-08 23-24	8500		8300		670			
		08-16 <sup>1</sup> 16-17 17-23	8000 9000 9500		7800 8800 9300		170 1170 1670			
	2nd February 2014 to 18th February 2014	00-08 23-24	8500	200	8300	7630	670			
		08-16 <sup>1</sup> 16-17 17-23	8000 9000 9500		7800 8800 9300		170 1170 1670			
	19th February 2014 to 28th February 2014	00-17 23-24 17-23	9000 9500	200	8800 9300	7630	1170 1670			

\* 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).

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

Issue Date: 21/02/2014

Issue Time: 2000 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)	Changes in TTC w.r.t. Last Revision	Comments
----------	------	-------------------	---------------------------------	--------------------	-------------------------------------	--	--	-------------------------------------	----------

- 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-Parli 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 February 2014	00-07	6500	800	5700	5299	401		
		16-17			5000		0		
		23-24			5000		0		
	2nd February 2014 to 5th February 2014	07-16'	5800						
		17-23	5800						
		23-24	5800						
	6th February 2014	00-17	7500	800	6700	5299	1401		
		23-24	7000		6200		901		
	7th February 2014	00-17	7500	800	6700	5299	1401		
		23-24	7000		6200		901		
	8th February 2014 to 9th February 2014	00-07	7500	800	6700	5299	1401		
		23-24	6900		6100		801		
		07-17'	7000		6200		901		
	10th February 2014 to 11th February 2014	00-17	7500	800	6700	5299	1401		
		23-24	7000		6200		901		
		17-23	7000		6200		901		
	12th February 2014	00-17	7800	800	7000	5687	1313		
		23-24	7300		6500		813		
	13th February 2014	00-08	7800	800	7000	5774	1226		
		12-17	5800		5000		0		
		23-24	7300		6500		726		
	14th February 2014 to 20th February 2014	00-17	7800	800	7000	5774	1226		
		23-24	7300		6500		726		
	21st February 2014	00-09	7800	800	7000	5774	1226		
23-24		6700	5900		126				
09-17'		7800	7000		1226				
22nd February 2014 to 28th February 2014	00-17	7800	800	7000	5774	1226			
	23-24	7300		6500		726			
<b>NER<sup>2</sup></b>	1st February 2014	00-07	350	50	300	230	70		
		16-17			270		40		
		23-24			280		50		
	2nd February 2014 to 5th February 2014	07-16'	320						
		17-23	330						
		23-24	330						
	6th February 2014	00-17	720	50	670	230	440		
		23-24	640		590		360		
	7th February 2014	00-17	720	50	670	230	440		
		23-24	640		590		360		
	8th February 2014 to 9th February 2014	00-07	720	50	670	230	440		
		23-24	500		450		220		
		07-17'	640		590		360		
	10th February 2014 to 19th February 2014	00-17	720	50	670	230	440		
		23-24	640		590		360		
		17-23	640		590		360		
	20th February 2014	00-07	720	50	670	230	440		
		07-17'	650		600		370		
		17-23	590		540		310		
		23-24	650		600		370		
	21st February 2014	00-07	650	50	600	230	370		
		23-24	580		530		300		
		07-17'	590		540		310		
	22nd February to 23rd February 2014	00-07	650	50	600	230	370	70	Revised because shutdown of 132 kV BTPS-Dhalgaon is not being availed.
07-17'		590	540		310				
24th February 2014 to 28th February 2014	00-17	650	50	600	230	370			
	23-24	590		540		310			
<b>WR</b>									
<b>SR</b>	1st February 2014 to 18th February 2014	00-05	1550	0	1550	1550	0		
		10-19	1550		0				
		05-10	1550		0				
	19th February 2014 to 28th February 2014	00-05	1750	0	1750	1657	93		
10-19		1750	1750		93				

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-Biharsharif 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 23-24	3500	700	2800	286	2514		
		17-23	3600		2900		2614		
NER	1st February 2014 to 19th February 2014	00-17 23-24	570	100	470	0	470		
		17-23	570		470		470		
	20th February 2014	00-07	570	100	470	0	470		
		07-17 23-24	520		420		420		
		17-23	450		350		350		
	21st February 2014 to 28th February 2014	00-17 23-24	520	100	420	0	420		
17-23		450	350		350				
WR									
SR*	1st February 2014 to 28th February 2014	00-17 23-24	2100	0	2100	197	1903		
		17-23	2100		2100		1903		

\* 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-Bhimmal 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)
	<b>Export</b>	3. Considering transfer capability assessment by CTU on NEW-SR corridor.

\*Primary constraints

**National Load Despatch Centre  
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
10	10/02/2014	11.02.14	Revised due to shutdown of 400 kV Sterlite-Raigarh Ckt 1	W3-ER
11	11/02/2014	11.02.14	Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2	WR-NR
			Margin revised due to allocation of Power to Bangladesh.	W3-ER
12	12/02/2014	13/02/2014	Revised due to Emergency shutdown of 765kV Gwalior Bus-1	WR-NR/ Import of NR
13	15/02/2014	16/02/2014	Revised due to shutdown of 400kV Sipat-Ranchi D/C	W3-ER
14	18/02/2014	19.02.14 - 28.02.14	Revised considering operational experience and margins on HVDC	ER-SR/WR-SR
			Review of flow pattern due to network topology change and Load Generation Balance.	W3 Zone Injection
15	19/02/2014	20.02.14 - 28.02.14	Revised due to shutdown of 220kV Balipara - Samaguri S/C	ER-NER/NER-ER
			Margin revised due to MTOA	WR-SR/ER-SR
16	20/02/2014	21.02.14	Revised due to shutdown of 765 kV Gwalior-Bina Ckt 2 and 765 kV Gwalior Bus 2	WR-NR
		21.02.14 - 23.02.14	Revised due to shutdown of 132 kV BTPS-Dhaligaon D/C	ER-NER
17	20/02/2014	21.02.14	Revised due to shutdown of 400kV Nellore-Sriperumbudur & 400 kV Nellore-Alamathy	S1-S2
18	21/02/2014	22.02.14 - 23.02.14	Revised because shutdown of 132 kV BTPS-Dhaligaon is not being availed.	ER-NER
		23.02.14 - 24.02.14	Revised due to shutdown of 400kV SV Chatham-Pondy	S1-S2