

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

Issue Date: 26/02/2014

Issue Time: 1200 hrs

Revision No. 19

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		
		00-17 23-24	3900	500	3400	3181	219		
WR-NR ¹	1st February 2014 to 11th February 2014	17-23	3900		3400	3181	219		
	12th February 2014	00-17 23-24	4200	500	3700	3569	131		
		17-23	4200		3700		131		
	13th February 2014	00-08 12-24	4200	500	3700	3656	44		
		08-12 ¹	3200		2700		0		
	14th February 2014 to 20th February 2014	00-17 23-24	4200	500	3700	3656	44		
		17-23	4200		3700		44		
	21st February 2014	00-09 23-24	4200	500	3700	3656	44		
		09-17 ¹	3100		2600		0		
		17-23	4200		3700		44		
	22nd February 2014 to 28th February 2014	00-17 23-24	4200	500	3700	3656	44		
		17-23	4200		3700		44		
NR-ER *	1st February 2014 to 28th February 2014	00-17 23-24	1000	200	800	200	600		
		17-23	1100		900		700		
		00-07 16-17 23-24	2600	300	2300	2118	182		
ER-NR	1st February 2014	07-16 ¹	1900		1600		0		
		17-23	1900		1600		0		
		00-17 23-24	2600	300	2300	2118	182		
	2nd February 2014 to 5th February 2014	17-23	1900		1600		0		
		00-17 23-24	3600	300	3300	2118	1182		
	6th February 2014	17-23	3100		2800		682		
		00-17 23-24	3600	300	3300	2118	1182		
	7th February 2014	17-23	3100		2800		682		
		00-07 23-24	3600	300	3300	2118	1182		
	8th February 2014 to 9th February 2014	07-17 ¹	3000		2700		582		
		17-23	3100		2800		682		
		00-17 23-24	3600	300	3300	2118	1182		
10th February 2014 to 28th February 2014	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 ¹	1300	300	1000	0	1000		
		00-24	1800	300	1500	0	1500		
	10th February 2014	00-09 18-24	1800	300	1500	0	1500		
		09-18 ¹	1500	300	1200	0	1200		
	12th February 2014 to 15th February 2014	00-24	1800	300	1500	60	1440		
		00-08 19-24	1800	300	1500	60	1440		
	16th February 2014	08-19 ¹	1600		1300		1240		
		00-24	1800	300	1500	60	1440		
17th February 2014 to 26th February 2014	00-09 18-24	1800	300	1500	60	1440			
	09-18 ¹	1500	300	1200	60	1140	-300	Revised due to shutdown of 400 kV SEL-Raigarh Ckt 2	
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		

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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 ²	1st February 2014	00-07 16-17 23-24	350	50	300	230	70					
		07-16 ¹ 17-23	320 330		270 280		40 50					
		2nd February 2014 to 5th February 2014	00-17 23-24		350		50	300	230	70		
			17-23		330			280		50		
ER-NER ²	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 ¹ 17-23	500 640		450 590		220 360					
		10th February 2014 to 19th February 2014	00-17 23-24		720		50	670	230	440		
	17-23		640	590	360							
	20th February 2014	00-07 07-17 ¹ 17-23	720 650 590	50	670 600 540	230	440 370 310					
		23-24	650		600		370					
		21st February 2014	00-07 23-24		650		50	600	230	370		
			07-17 ¹ 17-23		580 590			530 540		300 310		
22nd February 2014 to 23rd February 2014	00-07 23-24	650	50	600	230	370						
	07-17 ¹ 17-23	650 590		600 540		370 310						
	24th February to 28th February 2014	00-17 23-24		650		50	600	230	370			
17-23		590	540	310								
NER-ER	1st February 2014 to 19th February 2014	00-17 23-24	570	100	470	0	470					
		17-23	570		470		470					
		00-07	570		470		470					
	20th February 2014	07-17 23-24	520	100	420	0	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							
S1-S2	1st February 2014 to 20th February 2014	00-24	5650	400	5250	4900	350					
		00-07 19-24	5650		5250		4900	350				
	21st February 2014	07-19 ¹	5250	400	4850	4900	0					
		00-24	5650	400	5250	4900	350					
	23rd February 2014 to 24th February 2014	00-07 19-24	5650	400	5250	4900	350					
		07-19 ¹	5000		4600		4900	0				
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 ¹ 16-17	7600 8600		7400 8400		-230 770					
		17-18 18-23	9100 9500		8900 9300		1270 1670					
		2nd February 2014 to 18th February 2014	00-08 23-24		8500		200	8300	7630	670		
			08-16 ¹ 16-17 17-23		8000 9000 9500			7800 8800 9300		170 1170 1670		
		19th February 2014 to 28th February 2014	00-17 23-24		9000		200	8800	7630	1170		
	17-23		9500	9300	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).

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- 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-Biharsharif 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-Biharsharif
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-Biharsharif
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
ER									
NR¹	1st February 2014	00-07 16-17 23-24	6500	800	5700	5299	401		
		07-16	5800		5000		0		
		17-23	5800		5000		0		
	2nd February 2014 to 5th February 2014	00-17 23-24	6500	800	5700	5299	401		
		17-23	5800		5000		0		
	6th February 2014	00-17 23-24	7500	800	6700	5299	1401		
		17-23	7000		6200		901		
	7th February 2014	00-17 23-24	7500	800	6700	5299	1401		
		17-23	7000		6200		901		
	8th February 2014 to 9th February 2014	00-07 23-24	7500	800	6700	5299	1401		
		07-17	6900		6100		801		
		17-23	7000		6200		901		
	10th February 2014 to 11th February 2014	00-17 23-24	7500	800	6700	5299	1401		
		17-23	7000		6200		901		
	12th February 2014	00-17 23-24	7800	800	7000	5687	1313		
		17-23	7300		6500		813		
	13th February 2014	00-08 12-17 23-24	7800	800	7000	5774	1226		
		08-12	5800		5000		0		
		17-23	7300		6500		726		
	14th February 2014 to 20th February 2014	00-17 23-24	7800	800	7000	5774	1226		
17-23		7300	6500		726				
21st February 2014	00-09 23-24	7800	800	7000	5774	1226			
	09-17	6700		5900		126			
	17-23	7800		7000		1226			
22nd February 2014 to 28th February 2014	00-17 23-24	7800	800	7000	5774	1226			
	17-23	7300		6500		726			
NER²	1st February 2014	00-07 16-17 23-24	350	50	300	230	70		
		07-16	320		270		40		
		17-23	330		280		50		
	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		
		17-23	640		590		360		
	10th February 2014 to 19th February 2014	00-17 23-24	720	50	670	230	440		
		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 23-24	650	50	600	230	370		
		07-17	580		530		300		
17-23		590	540		310				
22nd February to 23rd February 2014	00-07 23-24	650	50	600	230	370			
	07-17	650		600		370			
	17-23	590		540		310			
24th February 2014 to 28th February 2014	00-17 23-24	650	50	600	230	370			
	17-23	590		540		310			
WR									
SR	1st February 2014 to 18th February 2014	00-05 10-19	1550	0	1550	1550	0		
		05-10 19-24	1550		1550		0		
	19th February 2014 to 28th February 2014	00-05 10-19	1750	0	1750	1657	93		
		05-10 19-24	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-NR 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	Import	(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)
	Export	(n-1) contingency of 400kV Zerda-Bhimmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
	Export	(n-1) contingency of 400 kV Farakka-Malda
SR	Import	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)
	Export	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
19	26.02.14	27.02.14	Revised due to shutdown of 400 kV SEL-Raigarh Ckt 2	W3-ER