

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

Issue Date: 18/02/2014

Issue Time: 1330 hrs

Revision No. 14

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 ¹	1st February 2014 to 11th February 2014	00-17	3900	500	3400	3181	219				
		23-24	3900		3400	3181	219				
	12th February 2014	00-17	4200	500	3700	3569	131				
		23-24	4200		3700	3569	131				
	13th February 2014	00-08	4200	500	3700	3656	44				
		12-24	3200		2700	3656	0				
	14th February 2014 to 28th February 2014	00-17	4200	500	3700	3656	44				
		23-24	4200		3700	3656	44				
NR-ER *	1st February 2014 to 28th February 2014	00-17	1000	200	800	200	600				
		23-24	1100		900		700				
ER-NR	1st February 2014	00-07	2600	300	2300	2118	182				
		16-17					1900	0			
		23-24					1900	0			
	2nd February 2014 to 5th February 2014	00-17	2600	300	2300	2118	182				
		23-24	1900		1600	2118	0				
	6th February 2014	00-17	3600	300	3300	2118	1182				
		23-24	3100		2800	2118	682				
	7th February 2014	00-17	3600	300	3300	2118	1182				
		23-24	3100		2800	2118	682				
	8th February 2014 to 9th February 2014	00-07	3600	300	3300	2118	1182				
		23-24					3000	2700	2118	582	
		07-17'					3100	2800	2118	682	
10th February 2014 to 28th February 2014	00-17	3600	300	3300	2118	1182					
	23-24	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	1800	300	1500	0	1500				
		18-24	1300	300	1000	0	1000				
	10th February 2014	00-24	1800	300	1500	0	1500				
	11th February 2014	00-09	1800	300	1500	0	1500				
		18-24	1500	300	1200	0	1200				
	12th February 2014 to 15th February 2014	00-24	1800	300	1500	60	1440				
		16th February 2014	00-08	1800	300	1500	60	1440			
19-24	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	850	150	150	Revised considering operational experience and margins on HVDC		
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	700	0	700	700	0		Revised considering operational experience and margins on HVDC
		10-19	700		0				
	19th February 2014 to 28th February 2014	00-05	750	0	750	700	50	50	
		10-19	750		50		50		
SR-ER *	1st February 2014 to 28th February 2014	00-17	1100	0	1100	197	903		
		23-24	1100		903				
ER-NER ²	1st February 2014	00-07	350	50	300	230	70		
		16-17	320		270		40		
		23-24	330		280		50		
		07-16'	330		280		50		
ER-NER ²	2nd February 2014 to 5th February 2014	00-17	350	50	300	230	70		
		23-24	330		280		50		
	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 28th February 2014	00-17	720	50	670	230	440		
		23-24	640		590		360		
	NER-ER	1st February 2014 to 28th February 2014	00-17	570	100	470	0	470	
23-24			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			
W3 zone Injection	1st February 2014	00-08	8500	200	8300	7630	670		Review of flow pattern due to network topology change and Load Generation Balance.
		23-24	7600		7400		-230		
		08-16'	8600		8400		770		
		16-17	9100		8900		1270		
		17-18	9500		9300		1670		
	2nd February 2014 to 18th February 2014	00-08	8500	200	8300	7630	670		
		23-24	8000		7800		170		
		08-16'	9000		8800		1170		
		16-17	9500		9300		1670		
	19th February 2014 to 28th February 2014	00-17	9000	200	8800	7630	1170	500	
		23-24	9500		9300		1670	0	

* 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

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1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections: <ul style="list-style-type: none"> • 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 Sterilte-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	
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 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 28th February 2014	00-17 23-24	720	50	670	230	440			
		17-23	640		590		360			
	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	1550	200	200	Revised considering operational experience and margins on HVDC
05-10 19-24			1750	1750		200		200		

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 23-24	3500	700	2800	286	2514		
		17-23	3600		2900		2614		
NER	1st February 2014 to 28th February 2014	00-17 23-24	570	100	470	0	470		
		17-23	570		470		470		
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-Bhinmal 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) 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
	Export	

*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