

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

Issue Date: 10/03/2014

Issue Time: 1100 hrs

Revision No. 11

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 March 2014 to 31st March 2014	00-24	2500	500	2000	361	1639					
WR-NR <sup>1</sup>	1st March 2014 to 4th March 2014	00-17	4200	500	3700	3656	44					
		17-23	4200		3700		44					
	5th March 2014	00-08	4200	500	3700	3656	44					
		17-23								3100	2600	0
	6th March 2014 to 31st March 2014	00-17	4200	500	3700	3656	44					
		23-24								4200	3700	44
NR-ER*	1st March 2014 to 31st March 2014	00-17	1000	200	800	200	600					
		23-24			1100		900			700		
ER-NR	1st March 2014 to 5th March 2014	00-17	3600	300	3300	2789	511					
		23-24								3100	2800	11
	6th March 2014	00-08	3600	300	3300	2789	511					
		23-24								3100	2800	11
		08-17'								3200	2900	111
	7th March 2014	00-08	3800	300	3500	2789	711					
		18-24								3200	2900	111
	8th March 2014 to 9th March 2014	00-17	3800	300	3500	2789	711					
		23-24								17-23	711	
	10th March 2014	00-10	3800	300	3500	2789	711					
		13-24								10-13'	2600	2300
	8th March 2014 to 31st March 2014	00-17	3800	300	3500	2789	711					
		23-24								17-23	711	
	W3-ER	1st March 2014	00-09	1800	300	1500	0	1500				
17-24			1500								1200	0
2nd March 2014 to 8th March 2014		00-24	1800	300	1500	0	1500					
		09-17'								1500	1200	0
9th March 2014 to 11th March 2014		00-09	1800	300	1500	0	1500					
		18-24								09-18'	1500	1200
13th March 2014	00-07	1800	300	1500	0	1500						
	19-24								07-19	1300	1000	1000
13th March 2014 to 31st March 2014	00-24	1800	300	1500	0	1500						
ER-W3	1st March 2014 to 31st March 2014	00-24	1000	300	700	700	0					
WR-SR	1st March 2014 to 31st March 2014	00-24	1000	0	1000	1000	0					
SR-WR *	1st March 2014 to 31st March 2014	00-24	1000	0	1000	0	1000					
ER-SR	1st March 2014 to 31st March 2014	00-05	750	0	750	657	93					
		10-19								750	750	93
SR-ER *	1st March 2014 to 31st March 2014	00-17	1100	0	1100	197	903					
		23-24								17-23	1100	1100

Crossing work of upcoming 765KV S/C Ranchi-Sipat line. Also for the construction work & stringing of 400 kV Ranchi-Ranchi-II

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ER-NER <sup>2</sup>	1st March 2014 to 05th March 2014	00-17	650	50	600	230	370				
		23-24			540		310				
	06th March 2014	00-17	650	50	600	230	370				
		17-23	590		540		310				
		23-24	650		600		370				
	7th March 2014	00-17	650	50	600	230	370				
		23-24	590		540		310				
	8th March 2014	00-09	650	50	600	230	370				
		16-17									
		23-24	350		300		70				
		09-16'	590		540		310				
	ER-NER <sup>2</sup>	9th March 2014 to 11th March 2014	00-09	650	50	600	230	370			
16-17											
23-24			350						300	70	
09-16'			590						540	310	
12th March 2014 to 14th March 2014		00-17	650	50	600	230	370				
		23-24	590		540		310				
15th March 2014		00-17	650	50	600	230	370				
		17-23	720		670		440				
		23-24	720		670		440				
16th March 2014 to 31st March 2014		00-17	720	50	670	230	440				
		23-24	720		670		440				
NER-ER		1st March 2014 to 05th March 2014	00-17	520	100	420	0	420			
	23-24					350		350			
	06th March 2014	00-17	520	100	420	0	420				
		17-23	450		350		350				
		23-24	520		420		420				
	7th March 2014 to 14th March 2014	00-17	520	100	420	0	420				
		23-24	450		350		350				
	15th March 2014	00-17	520	100	420	0	420				
		17-23	590		490		490				
		23-24	630		530		530				
	16th March 2014 to 31st March 2014	00-17	630	100	530	0	530				
		23-24	590		490		490				
S1-S2	1st March 2014	00-24	5650	400	5250	4900	350				
	2nd March 2014	00-06	5650	400	5250	4900	350				
		06-24'	5350	400	4950	4900	50				
3rd March 2014 to 31st March 2014	00-24	5650	400	5250	4900	350					
Import of Punjab	1st March 2014 to 31st March 2014	00-24	5600	300	5300	3800	1500				
Import TTC for DD & DNH	1st March 2014 to 31st March 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule					
W3 zone Injection	1st March 2014 to 31st March 2014	00-17	9000	200	8800	7167	1633				
		23-24			9300		2133				

\* 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**

**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 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 315 MVA ICT at Misa
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 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 March 2014 to 4th March 2014	00-17 23-24	7800	800	7000	6445	555		
		17-23	7300		6500		55		
	5th March 2014	00-08 23-24	7800	800	7000	6445	555		
		08-17'	5800		5000		0		
		17-23	7300		6500		55		
	6th March 2014	00-18 23-24	7800	800	7000	6445	555		
		08-17'	7400		6600		155		
		17-23	7300		6500		55		
	7th March 2014	00-08 18-24	8000	800	7200	6445	755		
		08-18'	7400		6600		155		
	8th March 2014 to 9th March 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
	10th March 2014	00-10 13-24	8000	800	7200	6445	755		
		10-13'	6800		6000		0		
11h March 2014 to 31st March 2014	00-17 23-24	8000	800	7200	6445	755			
	17-23	8000		7200		755			
<b>NER<sup>2</sup></b>	1st March 2014 to 05th March 2014	00-17 23-24	650	50	600	230	370		
		17-23	590		540		310		
	06th March 2014	00-17	650	50	600	230	370		
		17-23	590		540		310		
		23-24	650		600		370		
	7th March 2014	00-17 23-24	650	50	600	230	370		
		17-23	590		540		310		
	8th March 2014	00-09 16-17 23-24	650	50	600	230	370		
		09-16'	350		300		70		
		17-23	590		540		310		
	9th March 2014 to 11th March 2014	00-09 16-17 23-24	650	50	600	230	370		
		09-16'	350		300		70		
		17-23	590		540		310		
	12th March 2014 to 14th March 2014	00-17 23-24	650	50	600	230	370		
17-23		590	540		310				
15th March 2014	00-17	650	50	600	230	370			
	17-23	720		670		440			
	23-24	720		670		440			
16th March 2014 to 31st March 2014	00-17 23-24	720	50	670	230	440			
	17-23	720		670		440			
<b>WR</b>									
<b>SR</b>	1st March 2014 to 31st March 2014	00-05 10-19	1750	0	1750	1657	93		
		05-10	1750		1750		93		
		19-24							

**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 March 2014 to 31st March 2014	00-17	3500	700	2800	561	2239		
		23-24							
		17-23	3600		2900		2339		
NER	1st March 2014 to 05th March 2014	00-17	520	100	420	0	420		
		23-24							
		17-23	450		350		350		
	06th March 2014	00-17	520	100	420	0	420		
		23-24							
		17-23	450		350		350		
	07th March 2014 to 14th March 2014	00-17	520	100	420	0	420		
		23-24							
		17-23	450		350		350		
	15th March 2014	00-17	520	100	420	0	420		
		23-24							
		17-23	590		490		490		
	16th March 2014 to 31st March 2014	00-17	630	100	530	0	530		
		23-24							
		17-23	590		490		490		
WR									
SR*	1st March 2014 to 31st March 2014	00-17	2100	0	2100	197	1903		
		23-24							
		17-23	2100		2100		1903		

#### 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 315 MVA ICT at Misa
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

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

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	22-01-2014	Whole Month	Revised due to commissioning of 765kV Raichur-Sholapur S/C	ER-SR/ WR-SR
2	19-02-2014	Whole Month	1. Revised due to shutdown of TEESTA Power Station. 2. Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2	ER-NR/ WR-NR
			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
3	26-02-2014	Whole Month	Revised due to Non-Commissioning of Kudankulam U-1, Vallur U-3 & NLC Exp U-1	S1-S2
		01.03.14 - 06.03.14	Revised due to shutdown of 220kV Balipara - Samaguri S/C	ER-NER / NER-ER
4	28-02-2014	01.03.14	Revised due to shutdown of 400 kV SEL-Rourkela Ckt 1	W3-ER
5	01-03-2014	02.03.14	Revised due to shutdown of 400 kV Raichur-Gooty D/C	S1-S2
6	04-03-2014	06.03.14 - 15.03.14	Revised due to extension of 220 kV Balipara-Samaguri shutdown	ER-NER / NER-ER
		05.03.14	Revised due to emergency shutdown of 765 kV Gwalior Bus 1	WR-NR / NR Import
7	05-03-2014	06.03.14- 07.03.14	Revised due to shutdown of 400KV Biharshariff - Muzaffarpur D/C	ER-NR
8	07-03-2014	08.03.14	Revised due to shutdown of 400kV Purnea-Binaguri Ckt-3 &4	ER-NER
9	08-03-2014	09.03.14 - 11.03.14	Revised due to shutdown of 400kV Purnea-Binaguri Ckt-3 &4	ER-NER
			Revised due to shutdown of 400 kV Rourkela - Sundergarh - 1	W3-ER
10	09-03-2014	10.03.14	Revised due to Emergency shutdown of 400 kV Maithon-Koderma D/C	ER-NR
11	10-03-2014	11.03.14	Crossing work of upcoming 765KV S/C Ranchi-Sipat line. Also for the construction work & stringing of 400 kV Ranchi-Ranchi-II	W3-ER