

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

Issue Date: 12/03/2014

Issue Time: 1330 hrs

Revision No. 12

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 ¹	1st March 2014 to 4th March 2014	00-17	4200	500	3700	3656	44		
		23-24	4200		3700		44		
	5th March 2014	00-08	4200	500	3700	3656	44		
		17-23							
	6th March 2014 to 12th March 2014	00-17	4200	500	3700	3656	44		
		23-24	4200		3700		44		
	13th March 2014	00-07	4200	500	3700	3656	44		
		07-24	3950		3450		0		
	14th 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		
		17-23	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					711		
	10th March 2014	00-10	3800	300	3500	2789	711		
		13-24	2600		2300		0		
	11th March 2014 and 12th March 2014	00-17	3800	300	3500	2789	711		
		23-24					711		
	13th March 2014	00-07	3800	300	3500	2789	711		
		07-24'	3200		2900		111		
	14th March 2014	00-24	3200	300	2900	2789	111		
00-07		3200	2900		111		-600		
15th March 2014	07-24	2900	300	2600	2789	0		-900	Revised due to shutdown of 400 kV Kahalgaon-Biharshariff Ckt 1 and Ckt 2
16th March 2014 to 31st March 2014	00-17	3800	300	3500	2789	711			
	23-24					711			
W3-ER	1st March 2014	00-09	1800	300	1500	0	1500		
		17-24	1500	300	1200	0	1200		
		09-17'	1800	300	1500	0	1500		
	2nd March 2014 to 8th March 2014	00-24	1800	300	1500	0	1500		
		00-09	1800	300	1500	0	1500		
	18-24	1500	1200		1200				
	9th March 2014 to 11th March 2014	00-07	1800	300	1500	0	1500		
		19-24	1300		1000		1000		
12th March 2014	00-07	1800	300	1500	0	1500			
	19-24	1300		1000		1000			
13th March 2014 to 31st March 2014	00-24	1800	300	1500	0	1500			

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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 12th March 2014	00-05	750	0	750	657	93		Margin revised due to withdrawal of 150MW MTOA from Corporate Power Limited	
		10-19	750		750		93			
	13th March 2014 to 31st March 2014	00-05	750	0	750	507	243			
		10-19	750		750		243			
SR-ER *	1st March 2014 to 31st March 2014	00-17	1100	0	1100	197	903			
		23-24	1100		1100		903			
ER-NER ²	1st March 2014 to 05th March 2014	00-17	650	50	600	230	370		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff Ckt 1 and Ckt 2	
		23-24	650		600		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	650	50	600	230	370			
		23-24	650		600		370			
		17-23	590		540		310			
	8th March 2014	00-09	650	50	600	230	370			
		16-17	650		600		370			
		23-24	650		600		370			
		09-16'	350		300		70			
	9th March 2014 to 11th March 2014	17-23	590	50	540	230	310			
		23-24	650		600		370			
		00-09	650		600		370			
		16-17	650		600		370			
	12th March 2014	00-17	650	50	600	230	370			
		23-24	650		600		370			
		17-23	590		540		310			
	13th March 2014	00-07	650	50	600	230	370			
		07-17'	500		450		220			-150
		23-24	500		450		220			-90
	14th March 2014	00-17	500	50	450	230	220			
23-24		500	450		220		-150			
17-23		500	450		220		-90			
00-07		500	450		220		-150			
15th March 2014	07-17'	450	50	400	230	170				
	17-23	450		400		170		-200		
	23-24	450		400		170		-270		
	00-17	720		670		440				
16th March 2014 to 31st March 2014	23-24	720	50	670	230	440				
	17-23	720		670		440				
NER-ER	1st March 2014 to 05th March 2014	00-17	520	100	420	0	420			
		23-24	520		420		420			
		17-23	450		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	520		420		420			
		17-23	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	630		530		530				
		17-23	590		490		490			

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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
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					2133		
		17-23	9500		9300				

* 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

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	
ER										
NR ¹	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			
	11th March 2014 to 12th March 2014	00-17 23-24	8000	800	7200	6445	755			
		17-23	8000		7200		755			
	13th March 2014	00-07	8000	800	7200	6445	755			
		07-24	6950		6150		6445	0	-1050	Revised due to shutdown of HVDC Rihand -Dadri Earth electrode along with HVDC Rihand-Dadri pole2 and 400 kV Kahalgaon-Biharsharif Ckt 1
	14th March 2014	00-24	7400	800	6600	6445	155		-600	Revised due to shutdown of 400 kV Kahalgaon-Biharsharif Ckt 1
		00-07	7400		6600		6445	155	-600	
15th March 2014	07-24	7100	800	6300	6445	0		-900	Revised due to shutdown of 400 kV Kahalgaon-Biharsharif Ckt 1 and Ckt 2	
	00-17 23-24	8000		800		7200	6445	755		
16th March 2014 to 31st March 2014	17-23	8000			7200			755		
	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				
	00-09	650		600		370				
9th March 2014 to 11th March 2014	16-17 23-24	650	50	600	230	370				
	09-16	350		300		70				
	17-23	590		540		310				
	00-17	650		600		370				
12th March 2014	00-17 17-23	590	50	540	230	310				
	00-07	650		600		370				
13th March 2014	07-17	500	50	450	230	220		-150		
	17-23	500		450		220	-90			
	00-17	500		450		230	220	-150		
14th March 2014	17-23	500	50	450	230	220		-90		
	00-07	500		450		220	-150			
15th March 2014	07-17	450	50	400	230	170		-200		
	17-23	450		400		170	-270			
	23-24	450		400		170	-270			
16th March 2014 to 31st March 2014	00-17 23-24	720	50	670	230	440				
	17-23	720		670		440				
WR										
SR	1st March 2014 to 12th March 2014	00-05 10-19	1750	0	1750	1657	93			
		05-10 19-24	1750		1750		93			
	13th March 2014 to 31st March 2014	00-05 10-19	1750	0	1750	1507	243		Margin revised due to withdrawal of 150MW MTOA from Corporate Power Limited	
		05-10 19-24	1750		1750		243			

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

* Fifty

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-Bhimnal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusaui
NER	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
	Export	(n-1) contingency of 315 MVA ICT at Misa
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 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	13.03.14	Crossing work of upcoming 765KV S/C Ranchi-Sipat line. Also for the construction work & stringing of 400 kV Ranchi-Ranchi-II	W3-ER
12	12-03-2014	13.03.14- 31.03.14	Margin revised due to withdrawal/cancellation of 150MW MTOA from Corporate Power Limited	ER-SR
		13.03.14	Revised due to shutdown of HVDC Rihand -Dadri Earth electrode along with HVDC Rihand-Dadri pole2	WR-NR
		13.03.14 - 14.03.14	Revised due to shutdown of 400kV Kahalgaon-Biharshariff -1	ER-NR/ ER-NER
		15.03.14	Revised due to shutdown of 400kV Kahalgaon-Biharshariff D/C	ER-NR/ ER-NER