

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

Issue Date: 25/03/2014

Issue Time: 1730 hrs

Revision No. 5

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 April 2014 to 30th April 2014	00-24	2500	500	2000	361	1639		
WR-NR <sup>1</sup>	1st April 2014 to 30th April 2014	00-17	4200	500	3700	3656	44		
		23-24	4200		3700		44		
NR-ER*	1st April 2014 to 30th April 2014	00-17	1000	200	800	200	600		
		23-24	1100		900		700		
ER-NR <sup>5</sup>	1st April 2014 to 30th April 2014	00-17	3800	300	3500	2789	711		
		23-24					711		
W3-ER	1st April 2014 to 30th April 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st April 2014 to 30th April 2014	00-24	1000	300	700	700	0		
WR-SR	1st April 2014 to 30th April 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st April 2014 to 30th April 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st April 2014 to 30th April 2014	00-05	750	0	750	507	243		
		10-19	750		750		243		
SR-ER *	1st April 2014 to 30th April 2014	00-17	1100	0	1100	197	903		
		23-24	1100		1100		903		
ER-NER <sup>2</sup>	1st April 2014 to 30th April 2014	00-17	720	50	670	230	440		
		23-24	670		620		390		
NER-ER	1st April 2014 to 30th April 2014	00-17	580	100	480	0	480		
		23-24	560		460		460		
S1-S2	1st April 2014 to 30th April 2014	00-24	5800	400	5400	5050	350	-400	Revised due to Non commissioning of Kudankulam U-1 & Vallur U-3
Import of Punjab	1st April 2014 to 30th April 2014	00-24	5600	300	5300	3800	1500		
Import TTC for DD & DNH	1st April 2014 to 30th April 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st April 2014 to 30th April 2014	00-17	9000	200	8800	6901	1899		
		23-24	9500		9300		2399		

\* 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

\$ As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.

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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:**

- 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 (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs 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 <sup>1</sup>	1st April 2014 to 30th April 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
NER <sup>2</sup>	1st April 2014 to 30th April 2014	00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
WR									
SR	1st April 2014 to 30th April 2014	00-05 10-19	1750	0	1750	1507	243		
		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-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 April 2014 to 30th April 2014	00-17 23-24	3500	700	2800	561	2239		
		17-23	3600		2900		2339		
NER	1st April 2014 to 30th April 2014	00-17 23-24	580	100	480	0	480		
		17-23	560		460		460		
WR									
SR*	1st April 2014 to 30th April 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-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 and (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs 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

