

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

Issue Date: 19/02/2014

Issue Time: 1130 hrs

Revision No. 2

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	300	Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2
		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	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	150	Revised considering operational experience and margins on HVDC
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	657	93	50	Revised considering operational experience and margins on HVDC
		10-19					93	50	
		05-10	750						
SR-ER *	1st April 2014 to 30th April 2014	00-17	1100	0	1100	197	903		
		23-24					903		
		17-23	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	6200	500	5700	5500	200		
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	500	Review of flow pattern due to network topology change and Load Generation Balance.
		23-24	9500		9300		2399		
		17-23	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

**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

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**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
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
<b>WR-NR</b>	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
<b>NR-ER</b>	(n-1) contingency of 400 kV Allahabad-Pusaali
<b>ER-NR</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
<b>W3-ER</b>	(n-1) contingency of 400kV Sterilte-Rourkela S/C
<b>ER-W3</b>	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Raigarh-Sterilte
<b>WR-SR &amp; ER-SR</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>SR-WR</b>	Bhadrawati HVDC B/B link capacity
<b>SR-ER</b>	
<b>ER-NER</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
<b>NER-ER</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
<b>S1-S2</b>	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
<b>Import of Punjab</b>	(n-1) contingency of ICT at Patiala/Moga
<b>W3 zone Injection</b>	(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	200	Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2
		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	1657	93	200	Revised considering operational experience and margins on HVDC
		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-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	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 and (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs 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

