

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

Issue Date: 27/11/2013

Issue Time: 1300 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 February 2014 to 28th February 2014	00-24	2500	500	2000	286	1714		
WR-NR ¹	1st February 2014 to 28th February 2014	00-17	3900	500	3400	3181	219	200	Revised due to change in Load Generation in WR/NR
		17-23	3900		3400	3181	219		
NR-ER *	1st February 2014 to 28th February 2014	00-17	1000	200	800	200	600		
		17-23	1100		900		700		
ER-NR	1st February 2014 to 28th February 2014	00-17	3800	300	3500	2118	1382	1300	Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea
		17-23					1382		
W3-ER	1st February 2014 to 28th February 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st February 2014 to 28th February 2014	00-24	1000	300	700	700	0		
WR-SR	1st February 2014 to 28th February 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st February 2014 to 28th February 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st February 2014 to 28th February 2014	00-05	750	0	750	657	93		
		10-19					443		
		05-10	1100		1100		903		
SR-ER *	1st February 2014 to 28th February 2014	00-17	1100	0	1100	197	903		
		17-23					1100		
ER-NER ²	1st February 2014 to 28th February 2014	00-17	720	50	670	230	440	270	Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea.
		17-23	640		590		360	190	
NER-ER	1st February 2014 to 28th February 2014	00-17	570	100	470	0	470		
		17-23	570		470		470		
S1-S2	1st February 2014 to 28th February 2014	00-24	6200	400	5800	5500	300		
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 to 28th February 2014	00-08	8500	200	8300	7630	670	-500	Revised due to change in Inter-Regional flow pattern and Load generation change in ER/WR.
		08-16'	8000		7800		170	-1000	
		16-17	9000		8800		1170		
		17-23	9500		9300		1670		

* 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:

- 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	Bhadrawati HVDC B/B link capacity
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka Peak: 1. (n-1) contingency of 400 kV Rourkela-Talcher; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka
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

*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 February 2014 to 28th February 2014	00-17 23-24	7700	800	6900	5299	1601	1500	Change in Load Generation in WR/NR and commissioning of 400kV Purnea-Biharshariff D/C, Network Changes, Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea.
		17-23	7700		6900		1601		
NER ²	1st February 2014 to 28th February 2014	00-17 23-24	720	50	670	230	440	270	
		17-23	640		590		360	190	
WR									
SR	1st February 2014 to 28th February 2014	00-05 10-19	1750	0	1750	1657	93		
		05-10 19-24	2100		2100		443		

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	Bhadrawati HVDC B/B link capacity Off-Peak(ER-SR): 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka
	Export	Peak(ER-SR): 1. (n-1) contingency of 400 kV Rourkela-Talcher; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka

*Primary constraints

