

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

Issue Date: 02/12/2014

Issue Time: 1100 hrs

Revision No. 4

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 December 2014 to 31st December 2014	00-24	2500	500	2000	1055	945				
WR-NR	1st December 2014 to 4th December 2014	00-07'	4900	500	4400	4380	20				
		07-24'	4100		3600		0				
	5th December 2014 to 31st December 2014	00-17 23-24	4900	500	4400	4380	20				
		17-23	4900		4400		20				
NR-ER*	1st December 2014 to 31st December 2014	00-06	2000	200	1800	293	1507				
		06-18'	2000		1800	358	1442				
		18-24	2000		1800	293	1507				
ER-NR	1st December 2014 to 31st December 2014	00-17 23-24	3500	300	3200	2431	769				
		17-23	3600		3300		869				
W3-ER <sup>5</sup>	1st December 2014 to 31st December 2014	00-24	1900	300	1600	697	903				
ER-W3	1st December 2014 to 31st December 2014	00-24	1000	300	700	973	0				
WR-SR	1st December 2014 to 31st December 2014	00-24	2100	750	1350	1350	0				
SR-WR *	1st December 2014 to 31st December 2014	00-24	No limit is being Specified.								
ER-SR <sup>55</sup>	1st December 2014 to 7th December 2014	00-06 18-24	2300	0	2300	2435	0				
		06-18'				2500	0				
	8th December 2014 to 31st December 2014	00-06 18-24 06-18'	2000	0	2000	2435	0				
					2500	0					
SR-ER *	1st December 2014 to 31st December 2014	00-24	No limit is being Specified.								
ER-NER	1st December 2014	00-17 23-24	650	40	610	210	400				
		17-23	670		630		420				
	2nd December 2014 to 31st December 2014	00-17 23-24 17-23	685	40	645	210	435				
						460					
NER-ER	1st December 2014 to 31st December 2014	00-17 23-24	480	30	450	0	450				
		17-23	500	40	470		470				
S1-S2	1st December 2014 to 2nd December 2014	00-24	3300	295	3005	2879	0	Revised due to shutdown of 400kV Nellore - Alamatty			
	3rd December 2014	00-10	3300	295	3005	2879	0				
		1000-1730	3210	295	2915	2879	36			-90	
		1730-2400	3300	295	3005	2879	0				
	4th December 2014 to 9th December 2014	00-24	3300	295	3005	2879	0				
	10th December 2014 to 14th December 2014	00-24	3300	295	3005	3029	0				
	15th December 2014 to 28th December 2014	00-24	3300	295	3005	2978	0				
29th December 2014 to 30th December 2014	00-24	3300	295	3005	2942	0					
31st December 2014	00-24	3300	295	3005	2865	0					
Import of Punjab	1st December 2014 to 31st December 2014	00-24	5700	300	5400	3790	1610				
Import TTC for DD & DNH	1st December 2014 to 31st December 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule					
W3 zone Injection	1st December 2014 to 31st December 2014	00-17 23-24	9400	200	9200	6843	2357				
		17-23	9900		9700		2857				

\* 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).

\$ 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.

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 Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, 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) KWPC, n)Vandana Vidut

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# The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned the LTA/MTOA utilized would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.

In case of TTC Revision due to any shutdown :

- 1) The TTC value will be revised to normal values after restoration of shutdown.
- 2) The TTC value will be revised to normal values if the shutdown is not being availed in real time.

**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 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR & ER-NER	Outage of one circuit of 400KV Kahalgaon-Banka leads to thermal loading of second circuit.
W3-ER	(n-1) contingency of 400kV Sterlite-Rourkela S/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.
ER-NER	Palatana unit tripping leading to the thermal overloading of 220 kV BTPS - Salakati D/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur
Import of DD & DNH	(n-1) contingency of 400/220KV 315MVA ICT at VAPI
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (850 MW SPS setting on each circuit of 400kV Raipur-Wardha)

\*Primary constraints

\$\$ 400 kV Jeypore Gazuwaka ckt 2 is restored after severe damage due to Hudhud cyclone. In view of this, TTC has been increased. However considering that n-1 of 400 kV Jeypore-Gazuwaka will result in blocking of HVDC Gauwaka B/B .Therefore, only LTA and MTOA transfers are allowed through ER-SR corridor till 7th December.

**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	1st December 2014 to 4th December 2014	00-17 23-24	8400	800	7600	6811	789		
		17-23	7700		6900		89		
	5th December 2014 to 31st December 2014	00-17 23-24	8400	800	7600	6811	789		
		17-23	8500		7700		889		
NER	1st December 2014	00-17 23-24	650	40	610	210	400		
		17-23	670		630		420		
	2nd December 2014 to 31st December 2014	00-17 23-24	685	40	645	210	435		
		17-23	710		670		460		
WR									
SR	1st December 2014 to 31st December 2014	00-06 18-24	4100	750	3350	3785	0		
		06-18'	4100		3350	3850	0		

**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 December 2014 to 31st December 2014	00-06	4500	700	3800	999	2801		
		06-17'			3800	1064	2736		
		17-18'			3800	1064	2736		
		18-24			3800	999	2801		
NER	1st December 2014 to 31st December 2014	00-17 23-24	480	30	450	0	450		
		17-23	500	40	470		470		
WR									
SR *	1st December 2014 to	00-24	No limit is being Specified.						

\* 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>	Outage of one circuit of 400KV Kahalgaon-Banka leads to thermal loading of second circuit. High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	<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>	Outage of one circuit of 400KV Kahalgaon-Banka leads to thermal loading of second circuit.
	<b>Export</b>	Outage of one 315 MVA, 400/220kV ICT at Misa leads to overloading of second ICT at MISA.
SR	<b>Import</b>	1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-

\*Primary constraints

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<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision</b>	<b>Corridor Affected</b>
1	21-11-2014	Whole Month	Revised due to 400kV Jeypore-Gazuwaka D/C line Tower collapse	ER-SR
			Revised due to 400kV KalivendapattuPugalur-2 and 400/230kV Tiruvalam Downstream commissioning & Revised LGBR by constituents.	S1-S2
2	27-11-2014	Whole month	LTA revised due to allocation of power from North to West	NR-WR
			LTA revised due to allocation of LTA from ER to MP	ER-W3
		1-12-2014 to 4-12-2014	Revised due to shutdown of Mundra-Mohindergarh HVDC Pole-2	WR-NR
		Whole Month	Revised due to NCTPS Stage -2 Unit-1 outage extension & Synchronisation of 765kV Karnool-Tiruvalam DC line ( at 400kV level).	S1-S2
Revised considering network restructuring in NER region	ER-NER			
3	01-12-2014	1-12-2014 to 7-12-2014	Revised considering the revival of 400 kV Jeypore Gazuwaka ckt 2 after cyclone Hudhud	ER-SR
		Whole month	Revised considering the real time load generation balance conditions in ER region	ER-NER
			Revised considering network restructuring and real time load generation balance in NER region	NER-ER
4	02-12-2014	03-12-2014	Revised due to shutdown of 400kV Nellore - Alamatty	S1-S2