

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

Issue Date: 12/12/2014

Issue Time: 1130 hrs

Revision No. 14

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 2nd December 2014	00-07'	4900	500	4400	4380	20		
		07-24'	4100		3600		0		
	3rd December 2014	00-07'	4900	500	4400	4380	20		
		07-14'	4100		3600		0		
		14-24	3600		3600		0		
	4th December 2014	00-07'	4400	500	3900	4380	0		
		07-24'	3600		3100		0		
	5th December 2014 to 11th December 2014	00-07	4900	500	4400	4380	20		
		07-24	4100		3600		0		
	12th December 2014 to 18th December 2014	00-07	4900	500	4400	4380	20		
		07-24	4100		3600		0		
	19th December 2014 to 31st December 2014	00-17	4900	500	4400	4380	20		
		23-24	4900		4400		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	3500	300	3200	2431	769		
		23-24	3500		3300		869		
		17-23	3600		3300		869		
W3-ER^s	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 9th December 2014	00-24	2100	750	1350	1350	0		
	10th December 2014	00-05	2100	750	1350	1350	0		
		10-24'	1750		1000	1350	0		
	11th December 2014	05-22	2100	750	1350	1350	0		
		00-05	2500		1750	1350	400		
	12th December 2014 to 13th December 2014	05-08	2100	750	1350	1350	0		
		08-22'	1600		850	1350	0		
		22-24	2000		1250	1350	0		
		00-05	2500		1750	1350	400		
	14th December 2014 to 31st December 2014	05-22	2100	750	1350	1350	0		
		00-05	2500		1750	1350	400		
SR-WR *	1st December 2014 to 31st December 2014	00-24	No limit is being Specified.						

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ER-SR	1st December 2014 to 4th December 2014	00-06	2300	0	2300	2435	0						
		18-24				2500	0						
		06-18'				2435	0						
	5th December 2014	00-06	2300	0	2300	2435	0						
		06-13'	2300			2500	0						
		13-18'	2500			2500	0						
		18-24	2500			2435	65						
	6th December 2014 to 7th December 2014	00-06	2650	0	2650	2435	215						
		18-24				2500	150						
		06-18'				2500	150						
	8th December 2014 to 15th December 2014	00-06	2650	0	2650	2435	215						
		18-24				2500	150						
16th December 2014 to 31st December 2014	00-06	2650	0	2650	2435	215							
	18-24				2500	150							
06-18'	2435	215											
	2500	150											
SR-ER *	1st December 2014 to 31st December 2014	00-24	No limit is being Specified.										
ER-NER	1st December 2014	00-17	650	40	610	210	400						
		23-24					420						
	17-23	670	40	645	210	435							
		23-24				710			460				
		17-23				670			460				
	9th December 2014	00-08	685	40	645	210	435						
		23-24					420			210			
		08-17'					460			460			
	17-23	710	40	645	210	435							
		23-24				710			460				
		17-23				710			460				
	10th December 2014 to 31st December 2014	00-17	685	40	645	210	435						
23-24		710					460						
NER-ER	1st December 2014 to 8th December 2014	00-17	480	30	450	0	450						
		23-24					470			470			
		17-23					500			40	470	470	
	9th December 2014	00-08	480	30	450	0	450						
		23-24					275			245			
		08-17'					500			40	470	470	
	17-23	500	40	450	0	450							
		23-24				480			470				
		17-23				500			40	470	470		
	S1-S2	1st December 2014 to 2nd December 2014	00-24	3300	295	3005	2879	126					
			00-10					3300			295	3005	2879
		3rd December 2014	1000-1730	3210	295	2915	2879	36					
1730-2400			3300	295	3005	2879	126						
00-24			3300	295	3005	2879	126						
4th December 2014 to 9th December 2014		00-24	3300	295	3005	2879	126						
11th December 2014		00-06	3300	295	3005	3029	3138	0					
		06-24						3575			295	3280	3138
12th December 2014		00-24	3575	295	3280	3138	3138	142					
		00-09						3575			295	3280	3138
13th December 2014		09-18'	2950	295	2655	3138	3138	0		Revised due to shutdown of 400kV Kolar - Hoody D/C			
		18-24'						3575			295	3280	3138
	00-24	3575						295			3280	3138	142
14th December 2014	00-24	3575	295	3280	3138	142							
15th December 2014 to 28th December 2014	00-24	3300	295	3005	2978	27							

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	29th December 2014 to 30th December 2014	00-24	3300	295	3005	2942	63		
	31st December 2014	00-24	3300	295	3005	2865	140		
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	9400	200	9200	6843	2357		
		23-24					2857		
		17-23	9900	9700					

* 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).

** Maharashtra's off peak demand is considered to be lower than the peak demand by approximately 5000 MW from 2200 hrs to 0500 hrs

\$ 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) KWPCCL, n)Vandana Vidyut

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-NR	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-NR	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

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 2nd December 2014	00-07	8400	800	7600	6811	789			
		07-'17	7600		6800		0			
		17-23	7700		6900		89			
		23-24	7600		6800		0			
	3rd December 2014	00-07	8400	800	7600	6811	789			
		07-'14	7600		6800		0			
		14-'17	7100		7100		0			
		17-23	7200		6400		0			
	23-24	7100	6300	0						
		4th December 2014	00-07	7900	800	7100	6811	289		
			07-'17	7100		6300		0		
			17-23	7200		6400		0		
	23-24		7100	6300		0				
	5th December 2014 to 11th December 2014	00-07	8400	800	7600	6811	789			
		07-17	7600		6800		0			
		23-24	7600		6800		0			
	17-23	7700	6900	89						
		12th December 2014 to 18th December 2014	00-07	8400	800	7600	6811	789		
			07-17	7600		6800		0		
	23-24		7600	6800		0				
	17-23	7700	6900	89						
		19th December 2014 to 31st December 2014	00-17	8400	800	7600	6811	789		
	23-24		8400	7600		789				
	17-23	8500	7700	889						

NER	1st December 2014	00-17	650	40	610	210	400		
		23-24			630		420		
	2nd December 2014 to 8th December 2014	00-17	685	40	645	210	435		
		23-24			670		460		
	9th December 2014	00-08	685	40	645	210	435		
		23-24			420		210		
		08-17'	460		670		460		
	10th December 2014 to 31st December 2014	00-17	685	40	645	210	435		
23-24			670		460				
WR									
SR	1st December 2014 to 4th December 2014	00-06	4400	750	3650	3785	0		
		18-24							
	5th December 2014	06-18'		750	3650	3850	0		
		00-06	4400			3785	0		
		06-13'	4400			3850	0		
		13-18'	4600			3850	0		
	6th December 2014 to 7th December 2014	18-24	4600	750	4000	3785	65		
		06-18'				3850	215	150	
	8th December 2014 to 9th December 2014	00-06	4750	750	4000	3785	215		
		18-24					3850	150	
	10th December 2014	06-18'		750	4000	3785	215		
		00-05	4750			3785	215		
		18-24				3650	3785	0	
		05-06'	4400			3650	3850	0	
	11th December 2014	06-10	4400	750	4000	3850	150		
		10-18'	4750			4000	3785	615	
		00-05	5150			4000	3850	150	
		06-18'	4750			4400	3785	215	
	12th December 2014 to 13th December 2014	18-22	4750	750	4000	3785	615		
		22-24	5150			3785	615		
		00-05	5150			4400	3785	615	
		05-06'	4750			4000	3785	215	
		06-08'	4750			4000	3850	150	
		08-18'	4250			3500	3850	0	
	14th December 2014 to 31st December 2014	18-22	4250	750	4000	3500	3785	0	
		22-24	4650			3900	3785	115	
		00-05	5150			4400	3785	615	
		05-06'	4750			4000	3785	215	
06-18'		4750	4000			3850	150		
	18-22	4750	750	4000	3785	215			
	22-24	5150			4400	3785	615		

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'	4500		3800	1064	2736		
		18-24	4500		3800	999	2801		
NER	1st December 2014 to 8th December 2014	00-17	480	30	450	0	450		
		23-24	500	40	470		470		
	9th December 2014	00-08	480	30	450	0	450		
		23-24	275	30	245		245		
		08-17'	500	40	470		470		
	10th December 2014 to 31st December 2014	00-17	480	30	450	0	450		
		23-24	500	40	470		470		
	WR								
SR *	1st December 2014 to 31st December 2014	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	Import	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
	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	Outage of one circuit of 400KV Kahalgaon-Banka leads to thermal loading of second circuit.
	Export	Outage of one 315 MVA, 400/220kV ICT at Misa leads to overloading of second ICT at MISA.
SR	Import	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

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

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
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-Mohindergerh 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
5	03-12-2014	03-12-2014 to 04-12-2014	Revised due to restriction of Power order of HVDC Vindhyachal B/B to 250 MW for maintenance reasons.	WR-NR
6	04-12-2014	05-12-2014 to 11-12-2014	Revised due to shutdown of HVDC Rihand - Dadri pole 1	WR-NR
		12-12-2014 to 18-12-2014	Revised due to shutdown of HVDC Rihand - Dadri pole 2	

7	05-12-2014	05-12-2014 to 15-12-2014	Revised considering the revival of 400 kV Jeypore Gazuwaka ckt 2 after cyclone Hudhud	ER-SR
8	06-12-2014	whole month	Revised considering the revival of 400 kV Jeypore Gazuwaka ckt 1 after cyclone Hudhud	ER-SR
9	08-12-2014	09-12-2014	Revised due to shutdown of 220 kV Azara	ER-NER / NER-ER
10	09-12-2014	10-12-2014	Revised due to shutdown of 400 kV Parli - Sholapur ckt 2	WR-SR
11	10-12-2014	11-12-2014 to 31-12-2014	Revised considering the present demand pattern of Maharashtra** during off -peak conditions	WR-SR
12	10-12-2014	11-12-2014 to 14-12-2014	Revised due to outage of Vallur unit 1	S1-S2
13	11-12-2014	12-12-2014 to 13-12-2014	Revised due to shutdown of HVDC Bhadrawati Pole 2	WR-SR
14	12-12-2014	13-12-2014	Revised due to shutdown of 400kV Kolar - Hoody D/C	S1-S2