

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

Issue Date: 22/10/2014

Issue Time: 1800 hrs

Revision No. 1

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 November 2014 to 30th November 2014	00-24	2500	500	2000	297	1703			
WR-NR	1st November 2014 to 30th November 2014	00-17	4900	500	4400	4380	20			
		17-23	4900		4400		20			
NR-ER*	1st November 2014 to 30th November 2014	00-06	1000	200	800	293	507			
		06-17'			800	338	462			
		17-18'	1100		900	338	562			
		18-23			900	293	607			
		23-24	1000		800	293	507			
ER-NR	1st November 2014 to 30th November 2014	00-17	3400	300	3100	2431	669			
		23-24					669			
		17-23					669			
W3-ER ^s	1st November 2014 to 30th November 2014	00-24	1900	300	1600	351	1249			
ER-W3	1st November 2014 to 30th November 2014	00-24	1000	300	700	874	0			
WR-SR	1st November 2014 to 30th November 2014	00-24	2100	750	1350	1350	0	300	Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C. The LTA/MTOA figures are based on allocations and the meetings on TTC/ATC taken by CTU on 24th and 30th Jul 2014.	
SR-WR *	1st November 2014 to 30th November 2014	00-24	No limit is being Specified.							
ER-SR	1st November 2014 to 30th November 2014	00-06	2000	0	2000		2585	0	-650	Revised due to the shutdown of 400 kV Jeypore - Gazuwaka on tower collapse & LTA/MTOA revised by CTU.
		18-24					2650	0		
SR-ER *	1st November 2014 to 30th November 2014	00-24	No limit is being Specified.							
ER-NER	1st November 2014 to 30th November 2014	00-17	620	50	570	210	360			
		23-24	580		530		320			
NER-ER	1st November 2014 to 30th November 2014	00-17	510	100	410	0	410			
		23-24	590		490		490			

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S1-S2	1st November 2014 to 5th November 2014	00-24	3000	285	2715	2904	0	590	Revised due to commissioning of 400kV Kalivendapattu- Pugalur ckt - 2 and 400/230 kV Tiruvalam downstream & Revised LGBR by constituents
	6th November 2014 to 11th November 2014	00-24	3000	285	2715	2827	0		
	12th November 2014 to 21st November 2014	00-24	3000	285	2715	2916	0		
	22nd November 2014 to 26th November 2014	00-24	3000	285	2715	2916	0		
	27th November 2014 to 30th November 2014	00-24	3000	285	2715	2839	0		
Import of Punjab	1st November 2014 to 30th November 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st November 2014 to 30th November 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st November 2014 to 30th November 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).

\$ 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) KWPCL, 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.

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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 (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	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit flows on ER-WR-NR corridor.
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	(n-1) contingency of 400 kV Balipara – Bongaigaon leading to thermal loading of 220kV BTPS-Agia S/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
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 November 2014 to 30th November 2014	00-17 23-24	8300	800	7500	6811	689		
		17-23	8300		7500		689		
NER	1st November 2014 to 30th November 2014	00-17 23-24	620	50	570	210	360		
		17-23	580		530		320		
WR									
SR	1st November 2014 to 30th November 2014	00-06 18-24	4100	750	3350	3935	0	-350	Revised due to commissioning of 765 kV Sholapur-Raichur Circuit-2 and 765 kV Wardha - Aurangabad D/C, shutdown of 400 kV Jeypore - Gazuwaka on tower collapse & LTA/MTOA revised by CTU.
		06-18'	4100		3350		4000		

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 November 2014 to 30th November 2014	00-06	3500	700	2800	644	2156		
		06-17'			2800	689	2111		
		17-18'	3600		2900	689	2211		
		18-23			2900	644	2256		
		23-24	3500		2800	644	2156		
NER	1st November 2014 to 30th November 2014	00-17 23-24	510	100	410	0	410		
		17-23	590		490		490		
WR									
SR *	1st November 2014 to 30th November 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	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit flows on ER-WR-NR corridor. 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).
	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 Balipara – Bongaigaon leading to thermal loading of 220kV BTPS-Agia S/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs 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-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.

*Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	26-09-2014	Whole month	Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C. The LTA/MTOA figures are based on allocations and the meetings on TTC/ATC taken by CTU on 24th and 30th Jul 2014.	WR-SR
			LTA/MTOA revised by CTU. MTOA from MP to Bescom (KPTCL) = 111 MW, MTOA from KSEB to Chattishgarh = 100 MW. TNEB got 365 MW LTA from WR (Jindal-150MW(earlier), KSK Mahanadi =179 MW, BALCO = 36 MW)	ER-SR
2	22-10-2014	Whole month	Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C. The LTA/MTOA figures are based on allocations and the meetings on TTC/ATC taken by CTU on 24th and 30th Jul 2014.	WR-SR
			Revised due to the shutdown of 400 kV Jeypore - Gazuwaka on tower collapse & LTA/MTOA revised by CTU.	ER-SR
			Revised due to commissioning of 400kV Kalivendapattu-Pugalur ckt - 2 and 400/230 kV Tiruvalam downstream & Revised LGBR by constituents.	S1-S2