

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

Issue Date: 26/09/2014

Issue Time: 2000 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 October 2014 to 31st October 2014	00-24	2500	500	2000	651	1349			
WR-NR	1st October 2014 to 31st October 2014	00-17	4900	500	4400	4380	20			
		23-24								
		17-23	4900		4400		20			
NR-ER*	1st October 2014 to 31st October 2014	00-06	1800	200	1600	293	1307			
		06-17'			800	358	442			
		17-18'	1800		1600	358	1242			
		18-23			900	293	607			
		23-24			1800	1600	293			1307
ER-NR	1st October 2014 to 31st October 2014	00-17	4000	300	3700	2431	1269			
		23-24					1269			
		17-23	1269							
W3-ER ^s	1st October 2014 to 31st October 2014	00-24	1600	300	1300	697	603			
ER-W3	1st October 2014 to 31st October 2014	00-24	1000	300	700	874	0			
WR-SR	1st October 2014 to 31st October 2014	00-24	2100	750	1350	1350	0			
SR-WR *	1st October 2014 to 31st October 2014	00-24	No limit is being specified							
ER-SR	1st October 2014 to 31st October 2014	00-06 18-24	2650	0	2650	2585	65		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)	
		06-18'				2650	0			
SR-ER *	1st October 2014 to 31st October 2014	00-24	No limit is being specified							
ER-NER	1st October 2014 to 31st October 2014	00-06	540	50	490	205	285			
		23-24					285			
		06-17'	540		490		210			280
		17-18	510		460		210			250
NER-ER	1st October 2014 to 31st October 2014	18-23	510	100	460	0	255			
		00-17	690		590		590			
		23-24			590		430			
S1-S2	1st October 2014 to 5th October 2014	00-24	3050	300	2750	2837	0	750	Revised due to commissioning of 400kV Tiruvalam- Kalivendapattu D/C line, 400kV Kalivendapattu-Pugalur-1 & Tiruvalam 230kV line and LGBR Changes.	
	6th October 2014 to 14th October 2014	00-24	2750	300	2450	2764	0	450		
	15th October 2014 to 18th October 2014	00-24	2750	300	2450	2728	0	450		
	19th October 2014	00-24	2750	300	2450	2651	0	450		
	20th October 2014 to 28th October 2014	00-24	2750	300	2450	2651	0	450		
	29th October 2014 to 30th October 2014	00-24	2750	300	2450	2651	0	450		
	31st October 2014	00-24	2750	300	2450	2687	0	450		

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Import of Punjab	1st October 2014 to 31st October 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st October 2014 to 31st October 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st October 2014 to 31st October 2014	00-17	9400	200	9200	6843	2357		
		23-24			9700		2857		
		17-23	9900						

* 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, 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 n) Vandana Vidyut

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 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 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 Sarnath-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 one circuit of 400kV MPL-Maithon D/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. (n-1) contingency of 400kV Parli(PG)-Sholapur(PG) D/C
	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.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	(n-1) contingency of one circuit of 400kV Talcher-Rourkela D/C
ER-NER	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/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 D/C line
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1-1) contingency of one circuit of 400 kV Raipur-Bhadrawati D/C 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	1st October 2014 to 31st October 2014	00-17 23-24	8900	800	8100	6811	1289			
		17-23	8900		8100		1289			
NER	1st October 2014 to 31st October 2014	00-06 23-24	540	50	490	205	285			
		06-17'	540		490		210			280
		17-18	510		460		210			250
		18-23	510		460		205			255
WR										
SR	1st October 2014 to 31st October 2014	00-06 18-24	4750	750	4000	3935	65		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)	
		06-18'	4750		4000		4000			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 October 2014 to 31st October 2014	00-06	3500	700	2800	944	1856		
		06-17'			2800	1009	1791		
		17-18'	3600		2900	1009	1891		
		18-23			2900	944	1956		
		23-24	3500		2800	944	1856		
NER	1st October 2014 to 31st October 2014	00-17 23-24	690	100	590	0	590		
		17-23	530		430		430		
WR									
SR *	1st October 2014 to 31st October 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	(n-1) contingencies of one circuit of 400KV Farakka-Malda D/C & (n-1) contingency of one circuit of 400KV Kahalgaon-Banka D/C 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).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Samath-Pusauli
NER	Import	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
SR	Import	1. (n-1) contingency of 400kV Parli(PG)-Sholapur(PG) D/C 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.

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	08-08-2014	Whole Month	STOA Margin revised due correction in LTA/ MTOA/ Allocation.	NR-WR/ NR-ER/ W3-ER
			Revised due to commissioning of contingency arrangement of one 500 MW Vindhyachal (Unit-12) with 400kV Vindhyachal-Rihand line.	WR-NR
			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. Any margins on account of less LTA/MTOA would be offered on day ahead basis.	WR-SR/ ER-SR
			Revised due to commissioning of 400/220KV 2X315MVA ICT at Kala S/S along with 220kV Kala-Sayali and 220KV Kala-Khadoli lines	Import TTC for DD & DNH
2	26-09-2014	Whole month	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
			Revised due to commissioning of 400kV Tiruvalam- Kalivendapattu DC line, 400kV Kalivendapattu-Pugalur-1 & Tiruvalam 230kV line and LGBR Changes.	S1-S2