

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

Issue Date: 15/10/2014

Issue Time: 1330 hrs

Revision No. 13

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	2800	300			2500
23-24										
17-23	2800			2500	2431	69				
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	00-06	2650	0	2650	2585	65			
		18-24			2650	2650	0			
		06-08'	2650		2650	0				
		08-18'	2450		2650	0				
	2nd October 2014 to 13th October 2014	00-06	2650	0	2650	2370	280			
		18-24				2435	215			
		06-18'	2650		2650	0				
		14th October 2014	00-06		2650	0	2650			2585
	14th October 2014	0600-1130'	2650	0	2650	2650	0			
		1130-1800'	2000	0	2000	2650	0			
		18-24'	2000	0	2000	2585	0			
		15th October 2014 to 31st October 2014	00-06	2000	0	2000	2585	0		
18-24	2000	2650	0							
06-18'	2000	2650	0							
SR-ER *	1st October 2014 to 31st October 2014	00-24	No limit is being specified							
ER-NER	1st October 2014 to 10th October 2014	00-06	700	40	660	210	450			
		23-24			660	210	450			
		06-17'	700		560	210	350			
		17-18	600		560	210	350			
	11th October 2014	00-08	700	40	660	210	450			
		23-24			310	210	100			
		08-17'	350		310	210	100			
		17-18'	350		560	210	350			
	12th October 2014 to 31st October 2014	00-06	700	40	660	210	450			
		23-24			660	210	450			
		06-17'	700		560	210	350			
		17-18	600		560	210	350			
	NER-ER	1st October 2014 to 31st October 2014	00-17	690	100	590	0	590		
			23-24			590	0	590		
			17-23	530		430	430			

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S1-S2	1st October 2014	00-24	3785	300	3485	2946	539		
	2nd October 2014	00-16	3050	300	2750	2837	0		
		16-24	3325	300	3025	2837	188		
	3rd October 2014	0000-1030	3325	300	3025	2837	188		
		1030-1200'	3620	300	3320	2731	589		
		12-24'	3620	300	3320	2731	589		
	4th October 2014	00-09'	3620	300	3320	2731	589		
		09-12'	3325	300	3025	2622	403		
		12-23'	3050	300	2750	2622	128		
	5th October 2014	23-24'	3325	300	3025	2622	403		
		00-17	3325	300	3025	2622	403		
		17-2315	3050	300	2750	2622	128		
	6th October 2014	2315-2400	3325	300	3025	2622	403		
		00-04	3325	300	3025	2658	367		
		0400'-1245	3050	300	2750	2658	92		
	7th October 2014	1245'-2400	3330	300	3030	2767	263		
		00-17	3330	300	3030	2767	263		
		17'-24	3620	300	3320	2767	553		
	8th October 2014	00-24	3325	300	3025	2658	367		
	9th October 2014	0000-0845	3325	300	3025	2658	367		
		0845-2400	3050	300	2750	2658	92		
	10th October 2014	00-24	3050	300	2750	2658	92		
	11th October 2014	00-11	3050	300	2750	2658	92		
		11-15'	3620	300	3320	2767	553		
		15-24'	3330	300	3030	2767	263		
	12th October 2014	00-10	3330	300	3030	2767	263		
		10-24'	3050	300	2750	2658	92		
	13th October 2014	00-24	3050	300	2750	2658	92		
	14th October 2014	00-24	3050	300	2750	2873	0		
	15th October 2014	00-08	3050	300	2750	2837	0		
		08'-19	2700	300	2400	2837	0		
19-24'		3050	300	2750	2837	0			
16th October 2014 to 20th October 2014	00-24	3050	300	2750	2837	0	300	Revised due to the extended outage of Vallur unit 1	
21st October 2014 to 28th October 2014	00-24	2750	300	2450	2728	0			
29th October 2014 to 30th October 2014	00-24	2750	300	2450	2651	0			
31st October 2014	00-24	2750	300	2450	2687	0			

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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 6th October 2014	00-17	9400	200	9200	6843	2357		
		23-24					2857		
	7th October 2014 to 31st October 2014	00-17	9400	200	9200	7054	2146		
		23-24					2646		
		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, 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	Bhadravati HVDC B/B link capacity
SR-ER	(n-1) contingency of one circuit of 400kV Talcher-Rourkela D/C
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 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-Bhadravati 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	7700	800	6900	6811	89						
		23-24											
		17-23	7700		6900		89						
NER	1st October 2014 to 10th October 2014	00-06	700	40	660	210	450						
		23-24											
		06-17								700	660	210	450
		17-18								600	560	210	350
		18-23								600	560	210	350
	11th October 2014	00-08	700	40	660	210	450						
		23-24											
		08-17								350	310	210	100
		17-18								350	310	210	100
		18-23								600	560	210	350
	12th October 2014 to 31st October 2014	00-06	700	40	660	210	450						
		23-24											
		06-17								700	660	210	450
		17-18								600	560	210	350
		18-23								600	560	210	350
WR													
SR	1st October 2014	00-06	4750	750	4000	3935	65						
		18-24											
		06-08								4750	4000	4000	0
	2nd October 2014 to 13th October 2014	00-06	4750	750	4000	3720	280						
		18-24											
		06-18								4750	4000	3785	215
	14th October 2014	00-06	4750	750	4000	3935	65						
		0600-1130								4750	4000	4000	0
		1130-1800								4100	3350	4000	0
		18-24								4100	3350	3935	0
		00-06								4100	750	3350	3935
	18-24	4100	3350	4000	0								
	15th October 2014 to 31st October 2014	00-06	4100	750	3350	3935	0						
		18-24								4100	3350	4000	0

Simultaneous Export Capability

Corridor	Date	Time	Total	Reliability	Available	Long Term	Margin	Changes	Comments			
NR*	1st October 2014 to 31st October 2014	00-06	3500	700	2800	944	1856					
		06-17										
		17-18	3600							2800	1009	1791
		18-23								2900	1009	1891
		23-24								3500	2900	944
2800	944	1856										
NER	1st October 2014 to 31st October 2014	00-17	690	100	590	0	590					
		23-24										
		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 High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
NER	Import	(n-1) contingency of 400 kV Samath-Pusauli
	Export	Palatana unit tripping leading to the thermal overloading of 220 kV BTPS - Salakati D/C
SR	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
	Export	1. (n-1) contingency of 400kV Pari(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
3	30-09-2014	01-10-2014	Revised due to the outage of Vallur Unit-2 and NCTPS St-2 Unit-1	S1-S2
		01-10-2014	Revised due to shutdown of 220kV Jeypore-Jayanagar ckt 1 and ckt 2 one at a time	ER-SR
		Whole Month	Revised after the reassessment of TTC due to the commissioning of the new elements in NER	ER-NER
		Whole Month	Revised considering the present inter-regional flow pattern and transit flows from ER to NR via WR	ER-NR
4	02-10-2014	02-10-2014 to 31-10-2014	LTA revised till further orders from CERC	ER-SR
5	02-10-2014	02-10-2014 to 03-10-2014	Revised due to the extension of outage of NCTPS Stage 2 Unit -1	S1-S2
6	03-10-2014	03-10-2014	Revised due to outage of both NCTPS Stage 2 Unit -1 and Vallur Unit -2. LTA granted by CTU revised as per orders from CERC	S1-S2
		04-10-2014	Revised due to outage of both NCTPS Stage 2 Unit -1 and Vallur Unit -3. LTA granted by CTU revised as per orders from CERC	
		05-10-2014 to 13-10-2014	LTA granted by CTU revised as per orders from CERC	
7	04-10-2014	04-10-2014 to 05-10-2014	Revised due to extended outage of NCTPS Unit-1.	S1-S2
		06-10-2014 to 15-10-2014	Revised due to the extended outage of Vallur Unit -1	
8	06-10-2014	05-10-2014 to 07-10-2014	Revised due to the extension of outage of NCTPS Unit -1	S1-S2
			Revised due to the outage of Vallur Unit -2	
9	07-10-2014	07-10-2014 to 10-10-2014	Revised due to the outage of NCTPS Stage 2 Unit -1	S1-S2
		07-10-2014	MTOA revised by CTU. MTOA from MP to Bescom (KPTCL) = 111 MW, MTOA from KSEB to Chattishgarh = 100 MW.	W3 zone injection
10	09-10-2014	09-10-2014 to 10-10-2014	Revised due to the Synchronisation of NCTPS Stage 2 Unit -1	S1-S2
11	11-10-2014	11-10-2014	Revised due to S/D of 400 kV Binaguri-Bongaigaon Ckt 1	ER-NER
		11-10-2014	Revised due to outage of Vallur Unit-2 and NCTPS Unit-1	S1-S2
		12-10-2014	Revised due to outage of Vallur Unit-2	
12	14-10-2014	14-10-2014 to 31-10-2014	Revised due to breakdown of 400 kV Jeypore -Gazuwaka D/C during Hudhud cyclone	ER-SR
		15-10-2014	Revised due to shutdown of 400 kV Kalivendapattu - Pugalur ckt 1	S1-S2
13	15-10-2014	16-10-2014 to 20-10-2014	Revised due to the extended outage of Vallur unit 1	S1-S2