

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

Issue Date: 3/10/2014

Issue Time: 1300 hrs

Revision No. 6

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 23-24	4900	500	4400	4380	20		
		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 23-24	2800	300	2500	2431	69		
		17-23					69		
W3-ER ⁵	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 18-24	2650	0	2650	2585	65		
		06-08'					2650		
		08-18'	2450		2450	2650	0		
	2nd October 2014 to 13th October 2014	00-06 18-24	2650	0	2650	2370	280		
		06-18'					2435		
	14th October 2014 to 31st October 2014	00-06 18-24	2650	0	2650	2585	65		
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 23-24	700	40	660	210	450		
		06-17'					700		
		17-18	600		560	210	350		
		18-23	600		560	210	350		
NER-ER	1st October 2014 to 31st October 2014	00-17 23-24	690	100	590	0	590		
		17-23					530		
SI-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		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
		1030-1200'	3620	300	3320	2731	589	295	
		12-24'	3620	300	3320	2731	589	570	
	4th October 2014	00-09'	3620	300	3320	2731	589	570	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
		09-12'	3325	300	3025	2622	403	275	Revised due to outage of NCTPS Stage 2 Unit-1. LTA granted by CTU revised as per orders from CERC
		12-24'	3050	300	2750	2622	128		LTA granted by CTU revised as per orders from CERC
	5th October 2014	00-24	3050	300	2750	2622	128		
	6th October 2014 to 13th October 2014	00-24	2750	300	2450	2549	0		
	14th October 2014	00-24	2750	300	2450	2764	0		
	15th October 2014 to 18th October 2014	00-24	2750	300	2450	2728	0		
	19th October 2014	00-24	2750	300	2450	2728	0		
	20th 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 31st October 2014	00-17	9400	200	9200	6843	2357		
		23-24	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, 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 Samath-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	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-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	7700	800	6900	6811	89		
		17-23	7700		6900		89		
NER	1st October 2014 to 31st October 2014	00-06 23-24	700	40	660	210	450		
		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 18-24	4750	750	4000	3935	65		
		06-08'	4750		4000	4000	0		
		08-18'	4550		3800	4000	0		
		00-06 18-24	4750		4000	3720	280		
	2nd October 2014 to 13th October 2014	06-18'	4750	4000	3785	215			
		00-06 18-24	4750	4000	3935	65			
	14th October 2014 to 31st October 2014	06-18'	4750	4000	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'			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 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	Palatana unit tripping leading to the thermal overloading of 220 kV BTPS - Salakati D/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
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	