

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

Issue Date: 28/08/2014

Issue Time: 1300 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 September 2014 to 30th September 2014	00-24	2500	500	2000	651	1349		
WR-NR	1st September 2014 to 30th September 2014	00-17 23-24	4900	500	4400	4380	20		
		17-23	4900		4400		20		
NR-ER*	1st September 2014 to 30th September 2014	00-06	1000	200	800	293	507		
		06-17'			800	358	442		
		17-18'	1100		900	358	542		
		18-23			900	293	607		
		23-24	1000		800	293	507		
ER-NR	1st September 2014 to 30th September 2014	00-17 23-24	4500	300	4200	2431	1769		
		17-23					1769		
W3-ER <sup>s</sup>	1st September 2014 to 30th September 2014	00-24	1600	300	1300	551	749		
ER-W3	1st September 2014 to 30th September 2014	00-24	1000	300	700	874	0		
WR-SR	1st September 2014 to 30th September 2014	00-24	2100	750	1350	1350	0		
SR-WR *	1st September 2014 to 30th September 2014	00-24	No limit is being Specified.						
ER-SR	1st September 2014 to 30th September 2014	00-06 18-24	2700	0	2700	2512	188		
		06-18'				2577	123		
SR-ER *	1st September 2014 to 30th September 2014	00-24	No limit is being Specified.						
ER-NER	1st September 2014 to 30th September 2014	00-06 23-24	700	300	400	210	190	170	Revised due to change in the Load - Generation balance consideration and addition of new network elements
		06-17'			700	400	210	190	
		17-18	620		320	210	110	80	
		18-23	620		320	210	110	80	
NER-ER	1st September 2014 to 30th September 2014	00-17 23-24	690	100	590	0	590	190	
		17-23			660		560	560	

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<b>S1-S2</b>	1st September 2014 to 5th September 2014	00-24	3075	300	2775	2969	0	575	Revised due to commissioning of 400kV Tiruvalam-Kalivendapattu DC line, 400kV Kalivendapattu-Pugalur-1 & Tiruvalam 230kV line and Vallur unit-1 planned outage
	6th September 2014 to 9th September 2014	00-24				2880	0		
	10th September 2014 to 16th September 2014	00-24				2969	0		
	17th September 2014 to 18th September 2014	00-24				2880	0		
	19th September 2014	00-24				3037	0		
	20th September 2014 to 21st September 2014	00-24				2836	0		
	22nd September 2014 to 30th September 2014	00-24				2887	0		
<b>Import of Punjab</b>	1st September 2014 to 30th September 2014	00-24	5700	300	5400	3790	1610		
<b>Import TTC for DD &amp; DNH</b>	1st September 2014 to 30th September 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
<b>W3 zone Injection</b>	1st September 2014 to 30th September 2014	00-17	9000	200	8800	6843	1957		
		23-24					2457		
		17-23					9500		

\* 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).

1) S1 comprises of AP and Karnataka; S2 comprises of Tamil Nadu, Kerala and Pondicherry

2) 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 be less. RLDC/ NLDC would factor this situation while issuing STOA approvals

\$ 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.

**Limiting Constraints**

Corridor	Constraint
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak
<b>WR-NR</b>	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).
<b>NR-ER</b>	(n-1) contingency of one circuit of 400 kV Allahabad-Pusauli
<b>ER-NR</b>	Outage of one circuit of 400KV Farakka-Malda D/C leads to thermal loading of second circuit.
<b>W3-ER</b>	Outage of one circuit of 400kV MPL-Maithon D/C leads to thermal loading of second circuit.
<b>ER-W3</b>	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
<b>WR-SR &amp; ER-SR</b>	1. Outage of one circuit of 400kV Parli(PG)-Sholapur(PG) D/C leads to thermal loading of second circuit.
	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.
<b>ER-NER</b>	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/C
<b>NER-ER</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
<b>S1-S2</b>	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C line
<b>Import of DD &amp; DNH</b>	(n-1) contingency of 400/220KV 315MVA ICT at VAPI
<b>Import of Punjab</b>	(n-1) contingency of ICT at Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL)
<b>W3 zone Injection</b>	(n-1-1) contingency of one circuit of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (800 MW SPS setting on each circuit of 400kV Raipur-Wardha)

### 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 September 2014 to 30th September 2014	00-17 23-24	9400	800	8600	6811	1789		
		17-23	9400		8600		1789		
NER	1st September 2014 to 30th September 2014	00-06 23-24	700	300	400	210	190	170	Revised due to change in the Load -Generation balance consideration and addition of new network elements
		06-17'	700		400	210	190	170	
		17-18	620		320	210	110	80	
		18-23	620		320	210	110	80	
WR									
SR	1st September 2014 to 30th September 2014	00-06 18-24	4800	750	4050	3862	188		
		06-18'	4800		4050	3927	123		

### 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 September 2014 to 30th September 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			2800	944	1856		
NER	1st September 2014 to 30th September 2014	00-17 23-24	690	100	590	0	590	190	Revised due to change in the Load -Generation balance consideration and addition of new network elements
		17-23	660		560		560	60	
WR									
SR *	1st September 2014 to 30th September 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

<b>NR</b>	<b>Import</b>	(n-1) contingency of one circuit of 400KV Farakka-Malda 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).
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
<b>NER</b>	<b>Import</b>	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/C
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
<b>SR</b>	<b>Import</b>	1. (n-1) contingency of one circuit 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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<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision</b>	<b>Corridor Affected</b>
1	07-08-2014	Whole Month	STOA Margin revised due change in LTA/ MTOA/ Allocation.	NR-WR
			Revised due to contingency arrangement of one 500 MW Vindhyachal (Unit-12) with 400kV Vindhyachal-Rihand line.	WR-NR
			STOA Margin revised due correction in LTA figure.	NR-ER
			Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C. The LTA/MTOA figures are based on allocations, 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	28-08-2014	Whole Month	Revised due to change in the Load -Generation balance consideration and addition of new network elements	ER -NER/NER-ER
			Revised due to commissioning of 400kV Tiruvalam-Kalivendapattu DC line, 400kV Kalivendapattu-Pugalur-1 & Tiruvalam 230kV line and Vallur unit-1 planned outage	S1-S2