

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

Issue Date: 28/05/2014

Issue Time: 2200 hrs

Revision No. 0

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	297	1703				
WR-NR	1st September 2014 to 30th September 2014	00-17	4200	500	3700	3992	0				
		17-23					4200			3700	0
NR-ER*	1st September 2014 to 30th September 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 September 2014 to 30th September 2014	00-17	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	1000	0	1000	1000	0				
SR-WR *	1st September 2014 to 30th September 2014	00-24	1000	0	1000	0	1000				
ER-SR	1st September 2014 to 30th September 2014	00-06	2700	0	2700	2366	334				
		18-24					2411			289	
SR-ER *	1st September 2014 to 30th September 2014	00-24	1200	0	1200	197	1003				
ER-NER	1st September 2014 to 30th September 2014	00-06	530	50	480	205	275				
		23-24					480			210	270
		06-17'	530				490			210	280
		17-18	540				490			205	285
NER-ER	1st September 2014 to 30th September 2014	00-17	500	100	400	0	400				
		17-23					600			500	500
S1-S2	1st September 2014 to 5th September 2014	00-24	2500	290	2210	2603	0				
	6th September 2014 to 9th September 2014	00-24					2514			0	
	10th September 2014 to 16th September 2014	00-24					2603			0	
	17th September 2014 to 24th September 2014	00-24					2514			0	
	25th September 2014 to 30th September 2014	00-24					2591			0	

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<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	980	0	980	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	9500		9300		2457		

\* 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) 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

# 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)
<b>NR-ER</b>	(n-1) contingency of 400 kV Allahabad-Pusauli
<b>ER-NR</b>	(n-1) contingencies of 400KV Farakka-Malda D/C
<b>W3-ER</b>	(n-1) contingency of 400kV MPL-Maithon D/C
<b>ER-W3</b>	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
<b>WR-SR &amp; ER-SR</b>	1. Commissioning of 765kV Raichur-Sholapur S/C
	2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO).
	3. 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>SR-WR</b>	Bhadrawati HVDC B/B link capacity
<b>SR-ER</b>	(n-1) contingency of 400kV Talcher-Rourkela D/C
<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 400 kV Kolar-Hosur D/C line
<b>Import of Punjab</b>	(n-1) contingency of ICT at Patiala/Moga
<b>W3 zone Injection</b>	(n-1-1) contingency 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 September 2014 to 30th September 2014	00-17 23-24	8700	800	7900	6423	1477			
		17-23	8700		7900		1477			
NER	1st September 2014 to 30th September 2014	00-06 23-24	530	50	480	205	275			
		06-17'	530		480		210			270
		17-18	540		490		210			280
		18-23	540		490		205			285
WR										
SR	1st September 2014 to 30th September 2014	00-06 18-24	3700	0	3700	3366	334			
		06-18'	3700		3700		3411			289

### 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	590	2210		
		06-17'			2800		635		
		17-18'	3600		2900	635	2265		
		18-23			2900	590	2310		
		23-24			2800	590	2210		
NER	1st September 2014 to 30th September 2014	00-17 23-24	500	100	400	0	400		
		17-23	600		500		500		
WR									
SR *	1st September 2014 to 30th September 2014	00-24	2200	0	2200	197	2003		

\* 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	<b>Import</b>	(n-1) contingencies 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)
	<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
NER	<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
SR	<b>Import</b>	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO). 3. 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>Export</b>	(n-1) contingency of 400kV Talcher-Rourkela D/C

\*Primary constraints

