

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

Issue Date: 13/06/2014

Issue Time: 1200 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 August 2014 to 31st August 2014	00-24	2500	500	2000	297	1703		
WR-NR	1st August 2014 to 31st August 2014	00-17	4700	500	4200	4380	0		Revised due to change in Load Generation Balance and Commissioning of Sasan Unit-1.
		23-24	4700		4200	4380			
NR-ER*	1st August 2014 to 31st August 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 August 2014 to 31st August 2014	00-17	4600	300	4300	2431	1869		
		23-24					1869		
17-23						1869			
W3-ER <sup>s</sup>	1st August 2014 to 31st August 2014	00-24	1700	300	1400	551	849		
ER-W3	1st August 2014 to 31st August 2014	00-24	1000	300	700	874	0		
WR-SR	1st August 2014 to 31st August 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st August 2014 to 31st August 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st August 2014 to 31st August 2014	00-06	2650	0	2650	2366	284		
		18-24				2411	239		
06-18'									
SR-ER *	1st August 2014 to 31st August 2014	00-24	1200	0	1200	197	1003		
ER-NER	1st August 2014 to 31st August 2014	00-17	530	50	480	205	275		
		23-24	520		470		265		
NER-ER	1st August 2014 to 31st August 2014	00-17	500	100	400	0	400		
		23-24	490		390		390		
S1-S2	1st August 2014 to 3rd August 2014	00-24	2520	300	2220	2641	0		
	4th August 2014 to 7th August 2014	00-24	2520	300	2220	2730	0		
	8th August 2014 to 9th August 2014	00-24	2520	300	2220	2653	0		
	10th August 2014 to 31st August 2014	00-24	2520	300	2220	2453	0		

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<b>Import of Punjab</b>	1st August 2014 to 31st August 2014	00-24	5600	300	5300	3800	1500		
<b>Import TTC for DD &amp; DNH</b>	1st August 2014 to 31st August 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
<b>W3 zone Injection</b>	1st August 2014 to 31st August 2014	00-17	9000	200	8800	6900	1900		
		23-24			9300		2400		
		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).

\$ 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 Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, 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 and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned 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
<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
<b>NR-ER</b>	(n-1) contingency of 400 kV Allahabad-Pusauli
<b>ER-NR</b>	(n-1) contingency of 400kV Farakka –Malda D/C
<b>W3-ER</b>	(n-1) contingency of 400kV Sterlite-Rourkela S/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
<b>SR-WR</b>	Bhadrawati HVDC B/B link capacity
<b>SR-ER</b>	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C
<b>ER-NER</b>	(n-1) contingency of 400 kV Balipara – Bongaigaon D/C leading to thermal loading of 220kV BTPS-Agia
<b>NER-ER</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
<b>S1-S2</b>	(n-1) contingency of 400 kV Kolar-Hosur D/C
<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 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)

\*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 August 2014 to 31st August 2014	00-17 23-24	9300	800	8500	6424	2076		Revised due to change in Load Generation Balance and Commissioning of Sasan Unit-1.
		17-23	9300		8500		2076		
NER	1st August 2014 to 31st August 2014	00-17 23-24	530	50	480	205	275		
		17-23	520		470		265		
WR									
SR	1st August 2014 to 31st August 2014	00-06 18-24	3650	0	3650	3366	284		
		06-18'	3650		3650	3411	239		

### 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 August 2014 to 31st August 2014	00-06	3500	700	2800	590	2210		
		06-17'			2800	635	2165		
		17-18'	3600		2900	635	2265		
		18-23			2900	590	2310		
		23-24			2800	590	2210		
NER	1st August 2014 to 31st August 2014	00-17 23-24	500	100	400	0	400		
		17-23	490		390	390			
WR									
SR *	1st August 2014 to 31st August 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) 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 high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV 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 400 kV Balipara – Bongaigaon D/C leading to thermal loading of 220kV BTPS-Agia S/C
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
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-
	<b>Export</b>	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C

\*Primary constraints

