

**National Load Despatch Centre  
Total Transfer Capability for July 2015**

Issue Date: 16/06/2015

Issue Time: 1730 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 Jul 2015 to 31st Jul 2015	00-24	2500	500	2000	706	1294		
WR-NR*	1st Jul 2015 to 31st Jul 2015	00-17	5100	500	4600	5157	0		
		23-24	5100		4600		0		
NR-ER*	1st Jul 2015 to 31st Jul 2015	00-06	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
		18-24	2000		1800	293	1507		
ER-NR*	1st Jul 2015 to 31st Jul 2015	00-17	4400	300	4100	2431	1669		
		23-24	4400		4100		1669		
W3-ER <sup>s</sup>	1st Jul 2015 to 31st Jul 2015	00-24	No limit is being specified. No Re-routing is allowed via W3-ER-NR.						
ER-W3	1st Jul 2015 to 31st Jul 2015	00-24	1000	300	700	874	0		
WR-SR	1st Jul 2015 to 31st Jul 2015	00-24	2300	750	1550	1350	200		
SR-WR *	1st Jul 2015 to 31st Jul 2015	00-24	No limit is being Specified.						
ER-SR	1st Jul 2015 to 31st Jul 2015	00-06	2650	0	2650	2585	65		
		18-24				2650	0		
SR-ER *	1st Jul 2015 to 31st Jul 2015	00-24	No limit is being Specified.						
ER-NER	1st Jul 2015 to 31st Jul 2015	00-17	720	40	680	210	470		
		23-24	720		680		470		
NER-ER	1st Jul 2015 to 31st Jul 2015	00-17	1040	30	1010	0	1010		
		23-24	1250		1210		1210		
S1-S2 (Rev - 0)	1st Jul 2015 to 9th Jul 2015	00-24	3145	335	2810	2908	0		
	10th Jul 2015 to 11th Jul 2015	00-24	3145	335	2810	2709	101		
	12th Jul 2015 to 19th Jul 2015	00-24	3145	335	2810	2789	21		
	20th Jul 2015	00-24	3145	335	2810	2878	0		
	21st Jul 2015 to 31st Jul 2015	00-24	2845	335	2510	2769	0		
Import of Punjab	1st Jul 2015 to 31st Jul 2015	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st Jul 2015 to 31st Jul 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st Jul 2015 to 31st Jul 2015	00-17	9400	200	9200	7094	2106		
		23-24	9900		9700		2606		

\* 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).

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§ 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) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu, Kerala and Puducherry

2) 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
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High Loading of 400kV Singrauli-Anpara & 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 Saranath-Pusauli
ER-NR	(n-1) contingency of 400 kV Farakka-Malda D/C
W3-ER	i. (n-1) Contingency of 400 kV MPL-Maithon S/C ii. (n-1) contingency of 400kV Sterlite-Rourkela S/C
ER-W3	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
WR-SR & ER-SR	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 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.
ER-NER	(n-1) contingency of 400 kV Farakka-Malda D/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C
Import of DD & DNH	(n-1) contingency of 400/220kV 315MVA ICT at VAPI
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)

\*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 Jul 2015 to 31st Jul 2015	00-17 23-24	7300	800	6500	7588	0	-2200	Revised considering skewed sharing of flows on WR-NR and ER-NR corridor in the range 70:30
		17-23	7300		6500		0		
NER	1st Jul 2015 to 31st Jul 2015	00-17 23-24	720	40	680	210	470		
		17-23	720		680		470		
WR									
SR	1st Jul 2015 to 31st Jul 2015	00-06 18-24	4950	750	4200	3935	265		
		06-18'	4950		4200	4000	200		

### 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 Jul 2015 to 31st Jul 2015	00-06	4500	700	3800	999	2801		
		06-18'			3800	1064	2736		
		18-24			3800	999	2801		
NER	1st Jul 2015 to 31st Jul 2015	00-17 23-24	1250	30	1220	0	1220		
		17-23	1330	40	1290		1290		
WR									
SR *	1st Jul 2015 to 31st Jul 2015	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) contingency of 400 kV 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 D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(n-1) contingency of 400 kV Farakka-Malda D/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
SR	Import	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
		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.

\*Primary constraints



ASSUMPTIONS IN BASECASE					
				Month : July '15	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	10648	10926	4850	4895
2	Haryana	8025	7057	3604	3604
3	Rajasthan	6824	7876	5172	5172
4	Delhi	5444	4642	1337	1337
5	Uttar Pradesh	12767	13454	6515	6511
6	Uttarakhand	1635	1274	931	901
7	Himachal Pradesh	1250	1046	1002	1002
8	Jammu & Kashmir	2314	1814	601	613
9	Chandigarh	304	264	0	0
10	ISGS/IPPs	0	0	20522	19131
	Total NR	49210	48352	44535	43166
II	EASTERN REGION				
1	Bihar	2659	2094	220	160
2	Jharkhand	935	796	580	300
3	Damodar Valley Corporation	2552	2073	3540	3165
4	Orissa	4010	3139	2851	1994
5	West Bengal	7444	5912	4872	3912
6	Sikkim	86	54	0	0
7	Bhutan	105	106	1360	1200
8	ISGS/IPPs	582	609	10481	9814
	Total ER	18373	14784	23903	20545
III	WESTERN REGION				
1	Maharashtra	18440	12323	13220	6391
2	Gujarat	11496	7898	9424	6038
3	Madhya Pradesh	6912	4037	4061	1263
4	Chattisgarh	3419	2255	2252	1036
5	Daman and Diu	284	249	0	0
6	Dadra and Nagar Haveli	667	473	0	0
7	Goa-WR	468	297	0	0
8	ISGS/IPPs	1051	1056	21573	20297
	Total WR	42736	28588	50531	35025

IV	SOUTHERN REGION				
1	Andhra Pradesh	5767	5254	5273	5055
2	Telangana	6344	5779	2341	1682
3	Karnataka	7560	6737	7132	5372
4	Tamil Nadu	12916	10915	8695	7007
5	Kerala	3095	2036	1644	673
6	Pondy	316	247	0	0
7	Goa-SR	68	68	0	0
8	ISGS/IPPs	0	0	8410	8410
	Total SR	36066	31036	33495	28199
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	106	95	0	0
2	Assam	933	873	284	232
3	Manipur	116	100	0	0
4	Meghalaya	268	185	200	165
5	Mizoram	72	44	4	2
6	Nagaland	98	98	22	16
7	Tripura	274	172	110	110
8	ISGS/IPPs	7	7	1338	1281
	Total NER	1874	1574	1958	1806
	Total All India	148259	124334	154422	128741