National Load Despatch Centre Total Transfer Capability for July 2015

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	421	1579			
TVD ND.	1st Jul 2015 to	00-17 23-24	5100	500	4600	-1	0			
WR-NR*	31st Jul 2015	17-23	5100	500	4600	5157	0			
			l							
	1st Jul 2015 to	00-06	2000		1800	293	1507			
NR-ER*	31st Jul 2015	06-18'	2000	200	1800	358	1442			
		18-24	2000		1800	293	1507			
ED Mod	1st Jul 2015 to	00-17	4400	200	4100	2424	1669			
ER-NR*	31st Jul 2015	23-24		300	1100	2431	4.10			
		17-23	4400		4100		1669			
	1st Jul 2015 to					No limit i	s being specified.			
W3-ER ^{\$}	31st Jul 2015	00-24					allowed via W3-El	R-NR		
	1st Jul 2015 to									
ER-W3	31st Jul 2015	00-24	1000	300	700	874	0			
		00-05	2700	I	1950	I	400	1		
WR-SR	1st Jul 2015 to	05-22'	2300	750	1550	1550	0			
WK-DK	31st Jul 2015	22-24'	2700	750	1950	1550	400			
	1st Jul 2015 to		2700		1750					
SR-WR *	31st Jul 2015	00-24	No limit is being Specified.							
	31st Jul 2013									
	1st Jul 2015 to	00-06				2100	550			
		1 18-24		0	2650	2100	330			
ER-SR		06-18'				2165	485			
EK-SK	3rd Jul 2015 to 00-	00-06				1657	993			
	31st Jul 2015	18-24	2650	0	2650	1657	993			
	518t Jul 2015	06-18'				1722	928			
SR-ER *	1st Jul 2015 to	00-24				No limit i	s being Specified.			
SK-EK	31st Jul 2015	00-24				140 111111111	s being specifica.			
		00.17	I	I	l	I		1		
ED MED	1st Jul 2015 to 31st Jul 2015	00-17	1270	45	1225	210	1015	550		
ER-NER		23-24	1250		1205		005	520	Revised on account of addition of	
		17-23	1250		1205		995	530	new elements in NER Grid and	
NER-ER	1st Jul 2015 to	00-17	1320	45	1275	0	1275	280	change in load-generation balance.	
NEK-EK	31st Jul 2015	23-24 17-23	1220	15	1185	0	1185	-20		
		17-23	1230	45	1100		1103	-20		
	1st Jul 2015 to	00.24	21.45	225	2010	2000	0			
	9th Jul 2015	00-24	3145	335	2810	2908	0			
	10th Jul 2015 to	00-24	2145	225	2810	2700	101			
61 63	11th Jul 2015	00-24	3145	335	2810	2709	101			
S1-S2 (Rev - 0)	12th Jul 2015 to	00.24	2145	325	2810	2790	21			
(Nev - U)	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	00-24	5700	300	5400	3790	1610			
(Rev - 0)	31st Jul 2015									
Import TTC										
for DD &	1st Jul 2015 to	00-24	1200	0	1200	LTA and MTC	OA as per ex-pp			
DNH	31st Jul 2015	00-24	1200	0	1200	sche	edule			
(Rev - 0)										
	1st Jul 2015 to	00-17	9400		0200		2106			
W3 zone	31st Jul 2015 to	23-24	9400	200	9200	7094	2106			
Injection	518t Jul 2015	17-23	9900		9700		2606			

Injection 31st Jul 2015 17-23 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).

National Load Despatch Centre Total Transfer Capability for July 2015

Corridor	Date Time Period (hrs)	Transfer	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
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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
- $f)\;BALCO,\;g)\;Sterlite\;(\#1,3,4),\;h)\;NSPCL,\;i)\;Korba,\;j)\;Sipat,\;k)\;KSK\;Mahanadi,\;L)DB\;Power,\;m)\;KWPCL,\;n)Vandana\;Vidyut$

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 commissionned 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) contingnecy of 400 kV Farakka-Malda D/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) 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.				
ER-NER & 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) contingnecy 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									
EK									
NR*	1st Jul 2015 to	00-17 23-24	7300	800	6500	7588	0		
	31st Jul 2015	17-23	7300	1	6500		0		
	1st Jul 2015 to 31st Jul 2015	00-17 23-24	1270	45	1225	210	1015	550	Revised on account of addition of new elements in NER Grid and change in loa generation balance.
NER		17-23	1250		1205		995	530	
WR									

		00-05	5350		4600	3650	950		
	1st Jul 2015 to	05-06'	4950		4200	3650	550		
	2nd Jul 2015	06-18'	4950	750	4200	3715	485		
		18-22	4950		4200	3650	550		
SR		22-24	5350		4600	3650	950		
SK		00-05	5350		4600	3207	1393		
	3rd Jul 2015 to	05-06'	4950		4200	3207	993		
	31st Jul 2015	06-18'	4950	750	4200	3272	928		
	21300012013	18-22	4950		4200	3207	993		
		22-24	5350		4600	3207	1393		

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	00-06 06-18'	4500	700	3800 3800	714 779	3086 3021			
1,120	31st Jul 2015	18-24	4500	, 30	3800	714	3086			
NER	1st Jul 2015 to 31st Jul 2015	00-17 23-24	1320	45	1275	0	1275	280	Revised on account of addition of new elements in	
NEK		17-23	1230	45	1185		1185	-20	NER Grid and change in load- generation balance.	
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

	, constituints	(* 1)
		(n-1) contingnecy of 400 kV Farakka-Malda D/C
	Import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop
NR	Import	flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra
1111		D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Evmont	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	-(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
NEK	Export	(II-1) Contingency of 400/220 kV, 2x313 MVA IC18 at ivitsa results in high loading of other IC1 at ivitsa
		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)
SR	Import	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.

^{*}Primary constraints

National Load Despatch Centre Total Transfer Capability for July 2015

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	01-05-2015	Whole Month	Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered.	WR-NR/ER- NR
2	16-06-2015	Whole month	Revised considering skewed sharing of flows on WR-NR and ER-NR corridor in the range 70:30	Import of NR
3	24-06-2015	24-06-2015 Whole Month	Revised considering the present Maharashtra Demand pattern & STOA Margin revised due to Talcher Stage-2 Unit-3 Shut down and revised ISGS allocation.	WR-SR/ ER- SR
			Revised considering the present Maharashtra Demand pattern & STOA Margin revised due to revised ISGS allocation.	NR-WR
4	30-06-2015	Whole Month	Revised on account of addition of new elements in NER Grid and change in load-generation balance.	ER-NER/ NER- ER

ASSL	IMPTIONS 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
	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
Ш	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
	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