

National Load Despatch Centre
Total Transfer Capability for June 2015

Issue Date: 15/04/2015

Issue Time: 1630 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 Jun 2015 to 30th Jun 2015	00-24	2500	500	2000	706	1294			
WR-NR*	1st Jun 2015 to 30th Jun 2015	00-17	5100	500	4600	5157	0	200	Revised due to commissioning of Sasan Unit-6 and reviewed HVDC set points.	
		23-24	5100		4600		0			
		17-23	5100		4600		0			
NR-ER*	1st Jun 2015 to 30th Jun 2015	00-06	2000	200	1800	293	1507			
		06-18'	2000		1800		358			1442
		18-24	2000		1800		293			1507
ER-NR*	1st Jun 2015 to 30th Jun 2015	00-17	4500	300	4200	2431	1769			
		23-24	4500		4200		1769			
		17-23	4500		4200		1769			
W3-ER [§]	1st Jun 2015 to 30th Jun 2015	00-24	No limit is being specified. No Re-routing is allowed via W3-ER-NR.							
ER-W3	1st Jun 2015 to 30th Jun 2015	00-24	1000	300	700	874	0			
WR-SR	1st Jun 2015 to 30th Jun 2015	00-24	2300	750	1550	1550	0	200	Revised due to commissioning of 765kV Pune-Sholapur S/C.	
SR-WR *	1st Jun 2015 to 30th Jun 2015	00-24	No limit is being Specified.							
ER-SR	1st Jun 2015 to 30th Jun 2015	00-06	2650	0	2650	2385	265		STOA margin revised due to commissioning of 765kV Pune-Sholapur S/C.	
		18-24					2450			200
SR-ER *	1st Jun 2015 to 30th Jun 2015	00-24	No limit is being Specified.							
ER-NER	1st Jun 2015 to 30th Jun 2015	00-17	860	40	820	210	610			
		23-24	750		710		500			
NER-ER	1st Jun 2015 to 30th Jun 2015	00-17	1040	30	1010	0	1010			
		23-24	1250		1210		1210			
S1-S2	1st Jun 2015 to 5th Jun 2015	00-24	2610	305	2305	2790	0			
	6th Jun 2015 to 14th Jun 2015	00-24	2910	305	2605	2898	0			
	15th Jun 2015 to 30th Jun 2015	00-24	2910	305	2605	2819	0			
Import of Punjab	1st Jun 2015 to 30th Jun 2015	00-24	5700	300	5400	3790	1610			
Import TTC for DD & DNH	1st Jun 2015 to 30th Jun 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule				
W3 zone Injection	1st Jun 2015 to 30th Jun 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 Vidut

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
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) D/C
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) D/C. 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	N-1 contingency of 220/132 kV, 2x100 MVA ICTs at Dimapur.
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) D/C

*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 Jun 2015 to 30th Jun 2015	00-17 23-24	9600	800	8800	7588	1212	200	Revised due to Commissioning of Sasan Unit 6 and reviewed HVDC set points.
		17-23	9600		8800		1212		
NER	1st Jun 2015 to 30th Jun 2015	00-17 23-24	860	40	820	210	610		
		17-23	750		710		500		
WR									
SR	1st Jun 2015 to 30th Jun 2015	00-06 18-24	4950	750	4200	3935	265		Revised due to commissioning of 765kV Pune-Sholapur S/C.
		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 Jun 2015 to 30th Jun 2015	00-06	4500	700	3800	999	2801		
		06-18'			3800	1064	2736		
		18-24			3800	999	2801		
NER	1st Jun 2015 to 30th Jun 2015	00-17 23-24	1040	30	1010	0	1010		
		17-23	1250	40	1210		1210		
WR									
SR *	1st Jun 2015 to 30th Jun 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 220/132 kV, 2x100 MVA ICTs at Dimapur.
	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) D/C. 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

