

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

Issue Date: 18/08/2015

Issue Time: 1235 hrs

Revision No. 19

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 Aug 2015 to 31st Aug 2015	00-24	2500	500	2000	421	1579			
WR-NR*	1st Aug 2015 to 6th Aug 2015	00-17 23-24	5100	500	4600	5277	0			
		17-23	5100		4600		0			
	7th Aug 2015	00-18 18-24	5100	500	4600	5277	0			
			4900		4400		0			
	8th Aug 2015	00-17 23-24	4900	500	4400	5277	0			
		17-23	4900		4400		0			
	9th Aug 2015 to 13th Aug 2015	00-17 23-24	4650	500	4150	5277	0			
		17-23	4650		4150		0			
	14th Aug 2015 to 15th Aug 2015	00-17 23-24	5750	500	5250	5277	0			
		17-23	5750		5250		0			
	16th Aug 2015	00-07	07-17	4750	500	4250	5277	0		
			17-24	4750		4250		0		
			00-07	5750		5250		0		
	17th Aug 2015	07-17	00-07	5750	500	5250	5277	0		
			17-24	5000		4500		0		
18th Aug 2015 to 31st Aug 2015	00-17 23-24	00-17	5750	500	5250	5277	0			
		17-23	5750		5250		0			
NR-ER*	1st Aug 2015 to 31st Aug 2015	00-06	2000	200	1800	293	1507			
		06-18	2000		1800	358	1442			
		18-24	2000		1800	293	1507			
ER-NR*	1st Aug 2015 to 31st Aug 2015	00-17 23-24	4800	300	4500	2431	2069			
		17-23	4800		4500		2069			
W3-ER^s	1st Aug 2015 to 31st Aug 2015	00-24	No limit is being specified. No Re-routing is allowed via W3-ER-NR.							
ER-W3	1st Aug 2015 to 31st Aug 2015	00-24	1000	300	700	874	0			
WR-SR	1st Aug 2015	00-05	2700	750	1950	1550	400			
		05-07	2300		1550	1550	0			
		07-22	2300		1550	1550	0			
		22-24	2700		1950	1550	400			
	2nd Aug 2015	00-05	2700	750	1950	1550	400			
		05-22	2300		1550	1550	0			
		22-24	2700		1950	1550	400			
	3rd Aug 2015	00-05	2700	750	1950	1550	400			
		05-08	2300		1550	1550	0			
		08-22	1000		1000	1550	0			
	4th Aug 2015	00-05	2700	750	1950	1550	400			
		05-22	2300		1550	1550	0			
		22-24	2700		1950	1550	400			
	5th Aug 2015	00-05	2700	750	1950	1550	400			
		05-07	2300		2300	1550	0			
		07-22	1000		1000	1550	0			
	6th Aug 2015 to 8th Aug 2015	00-05	2700	750	1950	1550	400			
		05-22	2300		1550	1550	0			
		22-24	2700		1950	1550	400			
	9th Aug 2015	00-05	2700	750	1950	1550	400			
		05-06	2300		1550	1550	0			
		06-22	1000		1000	1550	0			
	10th Aug 2015	00-05	2700	750	1950	1550	400			
		05-22	2100		1350	1550	0			
22-24		2500	1750		1550	200				

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	11th Aug 2015 to 15th Aug 2015	00-05	2700	750	1950	1550	400			
		05-22	2300		1550	1550	0			
		22-24	2700		1950	1550	400			
	16th Aug 2015	00-05	2700	750	1950	1550	400			
		05-07	2300		1550	1550	0			
		07-22	1000		1000	1550	0			
	17th Aug 2015 to 18th Aug 2015	00-05	2700	750	1950	1550	400			
		05-22	2300		1550	1550	0			
		22-24	2700		1950	1550	400			
	19th Aug 2015	00-05	2700	750	1950	1550	400		Revised due to shutdown of 400kV ramagundam-Bhadrawati ckt-1 and HVDC Bhadrawati pole-1.	
		05-06	2300		1550	1550	0			
		06-08	2050		1300	1550	0	-250		
		08-22	1800		1050	1550	0	-500		
	20th Aug 2015	22-24	2200	750	1450	1550	0	-500	Revised due to shutdown of 400kV ramagundam-Bhadrawati ckt-1	
		00-05	2700		1950	1550	400			
		05-06	2300		1550	1550	0			
		06-22	2050		1300	1550	0	-250		
	19th Aug 2015 to 31st Aug 2015	22-24	2450	750	1700	1550	150	-250		
		00-05	2700		1950	1550	400			
		05-22	2300		1550	1550	0			
	1st Aug 2015 to 31st Aug 2015	22-24	2700	750	1950	1550	400			
00-24		No limit is being Specified.								
ER-SR	1st Aug 2015 to 3rd Aug 2015	00-06	2650	0	2650	2300	350			
		18-24				2365	285			
	06-18									
4th Aug 2015 to 19th Aug 2015	00-06	2650	0	2650	1857	793				
	18-24				1922	728				
06-18										
20th Aug 2015 to 31st Aug 2015	00-06	2650	0	2650	2300	350				
	18-24				2365	285				
06-18										
SR-ER *	1st Aug 2015 to 31st Aug 2015	00-24	No limit is being Specified.							
ER-NER	1st Aug 2015 to 31st Aug 2015	00-17	1000	40	960	210	750			
		23-24					990	780		
17-23	1030									
NER-ER	1st Aug 2015 to 31st Aug 2015	00-17	1310	30	1280	0	1280			
		23-24					1260	1260		
		17-23					1300	40		1260
S1-S2	1st Aug 2015 to 31st Aug 2015	00-24	S1-S2 corridor TTC/ATC is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.							
Import of Punjab	1st Aug 2015 to 31st Aug 2015	00-24	Import of Punjab TTC/ATC is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.							
Import of DD & DNH	1st Aug 2015 to 31st Aug 2015	00-24	Import of DD & DNH TTC/ATC is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.							
W3 zone Injection	1st Aug 2015 to 4th Aug 2015	00-17	9400	200	9200	7236	1964			
		23-24					9700	2464		
	17-23	9900								
	5th Aug 2015 to 9th Aug 2015	00-17	9400	200	9200	7576	1624			
		23-24					9700	2124		
	17-23	9900								
10th Aug 2015 to 31st Aug 2015	00-17	9400	200	9200	7576	1624				
	23-24					9700	2124			
17-23	9900									

* 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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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
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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) KWPC, 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 (14000 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-Pusaui
ER-NR	N-1 contingency of 400 kV Biharshariff- Lakhisarai 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) 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 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa
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
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 Aug 2015 to 13th Aug 2015	00-05 08-24	7500	800	6700	7708	0			
		05-08'	8000		7200		0			
	14th Aug 2015 to 15th Aug 2015	00-05 08-24	8500	800	7700	7708	0			
		05-08'	9000		8200		0			
	16th Aug 2015	00-05	8500	800	7700	7708	0			
		08-24	7000		6200		0			
		05-07'	9000		8200		0			
		07-08'	7000		6200		0			
	17th Aug 2015	00-05	8500	800	7700	7708	0			
		08-24	7350		6550		0			
		05-07'	9000		8200		0			
		07-08'	7350		6550		0			
	18th Aug 2015 to 31st Aug 2015	00-05 08-24	8500	800	7700	7708	0			
		05-08'	9000		8200		0			
	NER	1st Aug 2015 to 31st Aug 2015	00-17 23-24	1000	40	960	210	750		
			17-23	1030		990		780		
WR										
SR	1st Aug 2015	00-05	5350	750	4600	3850	750			
		05-06'	4950		4200	3850	350			
		06-07'	4950		4200	3915	285			
		07-18'	4950		4200	3915	285			
		18-22'	4950		4200	3850	350			
		22-24	5350		4600	3850	750			
	2nd Aug 2015	00-05	5350	750	4600	3850	750			
		05-06'	4950		4200	3850	350			
		06-18'	4950		4200	3915	285			
		18-22'	4950		4200	3850	350			
		22-24	5350		4600	3850	750			
	3rd Aug 2015	00-05	5350	750	4600	3850	750			
		05-06'	4950		4200	3850	350			
		06-08'	4950		4950	3915	1035			
		08-18'	3650	0	3650	3915	0			
		18-22'	3650		3650	3850	0			
	22-24	3650	3650	3850	0					
	4th Aug 2015	00-05	5350	750	4600	3407	1193			
		05-06'	4950		4200	3407	793			
		06-18'	4950		4200	3472	728			
		18-22'	4950		4200	3407	793			
	22-24	5350	4600	3407	1193					
	5th Aug 2015	00-05	5350	750	4600	3407	1193			
		05-06'	4950		4200	3407	793			
		06-07'	4950		4950	3472	1478			
		07-18'	3650	0	2900	3472	-572			
		18-22'	3650		2900	3407	-507			
	22-24	3650	2900	3407	-507					
	6th Aug 2015 to 8th Aug 2015	00-05	5350	750	4600	3407	1193			
		05-06'	4950		4200	3407	793			
		06-18'	4950		4200	3472	728			
		18-22'	4950		4200	3407	793			
	22-24	5350	4600	3407	1193					
	9th Aug 2015	00-05	5350	750	4600	3407	1193			
		05-06'	4950		4200	3407	793			
		06-18'	3650	0	3650	3472	178			
		18-22'	3650		3650	3407	243			
	22-24	3650	3650	3407	243					

10th Aug 2015	00-05	5350	750	4600	3407	1193		
	05-06'	4750		4000	3407	593		
	06-18'	4750		4000	3472	528		
	18-22'	4750		4000	3407	593		
	22-24	5150		4400	3407	993		
11th Aug 2015 to 15th Aug 2015	00-05	5350	750	4600	3407	1193		
	05-06'	4950		4200	3407	793		
	06-18'	4950		4200	3472	728		
	18-22'	4950		4200	3407	793		
	22-24	5350		4600	3407	1193		
16th Aug 2015	00-05	5350	750	4600	3407	1193		
	05-06'	4950		4200	3407	793		
	06-07'	4950		4950	3472	1478		
	07-18'	3650	0	3650	3472	178		
	18-22'	3650		3650	3407	243		
22-24	3650		3650	3407	243			
17th Aug 2015 to 18th Aug 2015	00-05	5350	750	4600	3407	1193		
	05-06'	4950		4200	3407	793		
	06-18'	4950		4200	3472	728		
	18-22'	4950		4200	3407	793		
	22-24	5350		4600	3407	1193		
19th Aug 2015	00-05	5350	750	4600	3407	1193		
	05-06'	4950		4200	3407	793		
	06-08'	4700		3950	3472	478	-250	Revised due to shutdown of 400kV ramagundam-Bhadrawati ckt-1 and HVDC Bhadrawati pole-1.
	08-18'	4450		3700	3472	228	-500	
	18-22'	4450		3700	3407	293	-500	
	22-24	4850		4100	3407	693	-500	
00-05	5350	750	4600	3850	750			
05-06'	4950		4200	3850	350			
06-18'	4700		3950	3915	35	-250	Revised due to shutdown of 400kV ramagundam-Bhadrawati ckt-1	
18-22'	4700		3950	3850	100	-250		
22-24	5100		4350	3850	500	-250		
00-05	5350	750	4600	3850	750			
05-06'	4950		4200	3850	350			
06-18'	4950		4200	3915	285			
18-22'	4950		4200	3850	350			
22-24	5350		4600	3850	750			

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 Aug 2015 to 31st Aug 2015	00-06	4500	700	3800	714	3086					
		06-18'						3800	779	3021		
		18-24						3800	714	3086		
NER	1st Aug 2015 to 31st Aug 2015	00-17	1310	30	1280	0	1280					
		23-24						40	1260	1260		
		17-23										
WR												
SR *	1st Aug 2015 to 31st Aug 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 Biharshariff- Lakhisarai S/C High loading of 765 kV Agra-Gwalior (14000 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 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA
	Export	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) 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 August 2015**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	6/16/2015	Whole month	Revised considering skewed sharing of flows on WR-NR and ER-NR corridor in the range 70:30	Import of NR
2	6/29/2015	1-8-15 - 21-8-15	LTA/MTOA revised due to Talcher Stage 2 Unit 3 Shut-Down and Jhajar Re-Allocation	ER-SR / NR-WR
		22-8-15 - 31-8-15	LTA/MTOA revised due to Jhajar Re-Allocation	
3	7/16/2015	1-8-15 - 21-8-15	STOA Margin revised due to deferment of Talcher Stage 2 Unit 3 Shut-Down.	ER-SR
4	7/20/2015	Whole month	STOA Margin revised considering CERC order dated 03-07-2015 in petition No- 92/MP/2015 which is under implementation by CTU. Pending this any margins would be released for short term transactions on day ahead basis.	ER-SR
5	7/27/2015	Whole month	Revised considering the present Maharashtra demand pattern.	WR-SR
6	7/31/2015	8/1/2015	Revised due to shutdown of 400kV Ramagundam-Bhadrawati Ckt-1.	WR-SR
		Whole month	Revised considering present WR-NR and ER-NR Inter-regional flow pattern flow in the range 68:32	Import of NR
7	7/31/2015	8/1/2015	Revised due to cancellation of 400kV Ramagundam-Bhadrawati Ckt-1 shutdown by indenting agency.	WR-SR
8	8/2/2015	8/3/2015	Revised due to shutdown of 765 kV Sholapur-Raichur-2	WR-SR
9	8/3/2015	4-8-15 - 19-8-15	STOA Margin revised due to shutdown of Talcher Stage-2 Unit-3.	ER-SR
10	8/4/2015	5-8-15 - 31-8-15	STOA Margin revised due to Operationalization of LTA.	W3
11	8/4/2015	8/5/2015	Due to the shutdown of 765 kV Raichur-Sholapur-2	WR-SR
12	8/7/2015	7-8-15 - 17-8-15	Revised due to Overloading of 400kV SSP-Asoj S/C (Note: At present, due to Outage of Vindhyachal HVDC Block TTC was further reduced by 250MW).	WR-NR
13	8/8/2015	9/8/2015	Revised due to the shutdown of 400 kV Parli(PG)-Sholapur(PG) D/C	WR-SR
14	8/7/2015	9-8-15 - 31-8-15	Revised due to Outage of Vindhyachal HVDC Block-1	WR-NR
15	8/9/2015	8/10/2015	Revised due to shutdown of 765 kV Sholapur-Pune	WR-SR
16	8/13/2015	14-8-15 - 31-8-15	Revised due to commissioning of 765kV Gwalior-Phagi -1 & 2.	WR-NR & Import of NR
17	8/14/2015	8/16/2015	Revised due to shutdown of 400 kV Wardha-Parli ckt 1	WR-SR
			Revised due to shutdown of HVDC Mundra - Mahendragarh Pole 1	WR-NR & Import of NR
18	8/16/2015	8/17/2015	Revised due to shutdown of HVDC Mundra - Mahendragarh Pole 2	WR-NR & Import of NR

19	8/18/2015	8/19/2015	Revised due to shutdown of 400kV ramagundam-Bhadrawati ckt-1 and HVDC Bhadrawati pole-1.	WR-SR
		8/20/2015	Revised due to shutdown of 400kV ramagundam-Bhadrawati ckt-1	

ASSUMPTIONS IN BASECASE					
				Month : August '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	8713	8161	4857	4826
2	Haryana	8363	7722	3103	3103
3	Rajasthan	9308	8711	5400	5399
4	Delhi	5197	4629	1251	1251
5	Uttar Pradesh	13078	14381	6632	6641
6	Uttarakhand	1707	1599	775	698
7	Himachal Pradesh	1212	1081	1132	1137
8	Jammu & Kashmir	2252	1650	634	589
9	Chandigarh	304	250	0	0
10	ISGS/IPPs	0	0	20759	19350
	Total NR	50134	48182	44543	42994
II	EASTERN REGION				
1	Bihar	2295	1977	210	110
2	Jharkhand	898	692	499	404
3	Damodar Valley Corporation	2555	2323	3100	3043
4	Orissa	3491	2769	2847	2160
5	West Bengal	6943	6534	4946	3576
6	Sikkim	80	40	0	0
7	Bhutan	107	107	1170	1000
8	ISGS/IPPs	607	607	10535	9591
	Total ER	16976	15049	23307	19884
III	WESTERN REGION				
1	Maharashtra	18462	13082	12556	7174
2	Gujarat	13136	8742	10115	6180
3	Madhya Pradesh	7004	4347	3935	2521
4	Chattisgarh	3488	2084	2491	1036
5	Daman and Diu	287	250	0	0
6	Dadra and Nagar Haveli	675	640	0	0
7	Goa-WR	474	286	0	0
8	ISGS/IPPs	1059	1059	23713	21391
	Total WR	44585	30489	52810	38302

IV	SOUTHERN REGION				
1	Andhra Pradesh	6293	6002	5623	5039
2	Telangana	6866	6242	2944	2103
3	Karnataka	7897	6360	7633	5727
4	Tamil Nadu	13380	11277	8916	7189
5	Kerala	3271	1992	1694	693
6	Pondy	336	273	0	0
7	Goa-SR	69	69	0	0
8	ISGS/IPPs	0	0	8665	8530
	Total SR	38112	32215	35475	29281
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	134	100	0	0
2	Assam	1070	1003	284	242
3	Manipur	133	124	0	0
4	Meghalaya	305	205	198	148
5	Mizoram	71	44	4	3
6	Nagaland	111	115	21	16
7	Tripura	270	170	110	110
8	ISGS/IPPs	7	7	1554	1464
	Total NER	2101	1768	2171	1983
	Total All India	151909	127703	158306	132444