

**National Load Despatch Centre
Total Transfer Capability for August 2016**

Issue Date:12/8/2016

Issue Time: 1130 hrs

Revision No. 9

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 2016 to 3rd Aug 2016	00-24	2500	500	2000	149	1851		
	4th Aug 2016 to 31st Aug 2016	00-24	2500	500	2000	55	1945		
WR-NR*	1st Aug 2016 to 4th Aug 2016	00-24	6800	500	6300	6170	130		
	5th Aug 2016	00-09	6800	500	6300	6170	130		
		09-24	6000		5500	6170	0		
6th Aug 2016 to 31st Aug 2016	00-24	6800	500	6300	6170	130			
NR-ER*	1st Aug 2016 to 3rd Aug 2016	00-06	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
		18-24	2000		1800	293	1507		
	4th Aug 2016 to 31st Aug 2016	00-06	2000	200	1800	93	1707		
		06-18'	2000		1800	158	1642		
		18-24	2000		1800	93	1707		
ER-NR*	1st Aug 2016 to 31st Aug 2016	00-24	4400	300	4100	2431	1669		
W3-ER	1st Aug 2016 to 31st Aug 2016	00-24	No limit is being specified.						
ER-W3	1st Aug 2016 to 31st Aug 2016	00-24	No limit is being specified.						
WR-SR	1st Aug 2016	00-10'	4000	750	3250	3250	0		
		10'-24	2000	750	1250	3250	0		
	2nd Aug 2016 to 9th Aug 2016	00-24	4000	750	3250	3250	0		
		10th Aug 2016	00-07	4000	750	3250	3250	0	
	07-24'		3450	2700		0			
	11th Aug 2016	00-24	4000	750	3250	3250	0		
	12th Aug 2016	00-07	4000	750	3250	3250	0		
07-24'		3450	2700		0				
13th Aug 2016 to 31st Aug 2016	00-24	4000	750	3250	3250	0			
SR-WR *	1st Aug 2016 to 31st Aug 2016	00-24	No limit is being Specified.						
ER-SR	1st Aug 2016	00-06	2650	0	2650	2142	508		
		06-0830'	2650		2650	2207	443		
		0830-18'	2650		2650	2207	443		
		18-24'	2650		2650	2142	508		
	2nd Aug 2016 to 3rd Aug 2016	00-06	2650	0	2650	2142	508		
		06-0830'	2650		2650	2207	443		
		0830-18'	2450		2450	2207	243		
		18-24'	2450		2450	2142	308		
	4th Aug 2016 to 6th Aug 2016	00-06	2650	0	2650	2585	65		
		06-0830'	2650		2650	2650	0		
		0830-18'	2450		2450	2650	0		
		18-24'	2450		2450	2585	0		

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	7th Aug 2016 to 9th Aug 2016	00-06 18-24	2650	0	2650	2585	65		Revised due to shutdown of Kolar AC filter Bus-2
		06-18'				2650	0		
	10th Aug 2016 to 12th Aug 2016	00-06 18-24	2650	0	2650	2142	508		
		06-18'				2207	443		
	13th Aug 2016 to 18th Aug 2016	00-06	2650	0	2650	2142	508		
		06-08'	2650		2650	2207	443		
		08-18'	2450		2450	2207	243		
		18'-24	2450		2450	2142	308	-200	
	19th Aug 2016 to 31st Aug 2016	00-06 18-24	2650	0	2650	2142	508		
		06-18'				2207	443		
SR-ER *	1st Aug 2016 to 31st Aug 2016	00-24	No limit is being Specified.						
ER-NER	1st Aug 2016 to 31st Aug 2016	00-17 23-24	1050	45	1005	210	795		
		17-23	950		905		695		
NER-ER	1st Aug 2016 to 31st Aug 2016	00-17 23-24	1550	45	1505	0	1505		
		17-23	1500		1455		1455		
W3 zone Injection	1st Aug 2016 to 31st Aug 2016	00-24	No limit is being specified (in case of skewed inter-regional flows or any constraints appearing in the system, W3 zone export would be revised accordingly)						
Note: TTC/ATC of S1-S2 corridor, Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.									

* 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).

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 :

- The TTC value will be revised to normal values after restoration of shutdown.
- The TTC value will be revised to normal values if the shutdown is not being availed in real time.

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Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak
WR-NR	1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	n-1 contingency of one circuit of 400 kV Biharsharif- Lakhisarai leads to high loading on the other circuit
WR-SR & ER-SR	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit Low Voltage at Gazuwaka (East) Bus.
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. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
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	---

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 2016 to 4th Aug 2016	00-18	10800	800	10000	8701	1299			
		18-23	10000		9200		499			
		23-24	10800		10000		1299			
	5th Aug 2016	00-09	10800	800	10000	8701	1299			
		09-18	9550		8750		49			
		18-23	8850		8050		0			
		23-24	9550		8750		49			
	6th Aug 2016 to 31st Aug 2016	00-18	10800	800	10000	8701	1299			
		18-23	10000		9200		499			
		23-24	10800		10000		1299			
	NER	1st Aug 2016 to 31st Aug 2016	00-17	1050	45	1005	210	795		
			23-24			905		695		
17-23			950							
WR										
SR	1st Aug 2016	00-06	6650	750	5900	5392	508			
		06-0830'	6650		5900	5457	443			
		0830-10'	6650		5900	5457	443			
		10-18'	4650		3900	5457	0			
		18-24	4650		3900	5392	0			
	2nd Aug 2016 to 3rd Aug 2016	00-06	6650	750	5900	5392	508			
		06-0830'	6650		5900	5457	443			
		0830-18'	6450		5700	5457	243			
		18-24	6450		5700	5392	308			
	4th Aug 2016 to 6th Aug 2016	00-06	6650	750	5900	5835	65			
		06-0830'	6650		5900	5900	0			
		0830-18'	6450		5700	5900	0			
	7th Aug 2016 to 9th Aug 2016	18-24	6450	750	5700	5835	0			
		00-06	6650		5900	5835	65			
		06-18'	6650		5900	5900	0			
			18-24	6650		5900	5835	65		

10th Aug 2016	00-06	6650	750	5900	5392	508		
	06-07'	6650		5900	5457	443		
	07-18'	6100		5350	5457	0		
	18-24	6100		5350	5392	0		
11th Aug 2016	00-06	6650	750	5900	5392	508		
	06-18'	6650		5900	5457	443		
	18-24	6650		5900	5392	508		
12th Aug 2016	00-06	6650	750	5900	5392	508		
	06-07'	6650		5900	5457	443		
	07-18'	6100		5350	5457	0		
	18-24	6100		5350	5392	0		
13th Aug 2016 to 18th Aug 2016	00-06	6650	750	5900	5392	508		Revised due to shutdown of Kolar AC filter Bus-2
	06-08'	6650		5900	5457	443		
	08-18'	6450		5700	5457	243		
	18-24	6450		5700	5392	308		
19th Aug 2016 to 31st Aug 2016	00-06	6650	750	5900	5392	508		
	06-18'	6650		5900	5457	443		
	18-24	6650		5900	5392	508		

* 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).

<p>* For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio: Margin in Simultaneous import of NR = A WR-NR ATC =B ER-NR ATC = C</p> <p>Margin for WR-NR applicants = $A * B/(B+C)$ Margin for ER-NR Applicants = $A * C/(B+C)$</p>

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 2016 to 3rd Aug 2016	00-06	4500	700	3800	442	3358		
		06-18'			3800	507	3293		
		18-24			3800	442	3358		
	4th Aug 2016 to 31st Aug 2016	00-06	4500	700	3800	148	3652		
		06-18'			3800	213	3587		
		18-24			3800	148	3652		
NER	1st Aug 2016 to 31st Aug 2016	00-17	1550	45	1505	0	1505		
		23-24			1455		1455		
		17-23			1455		1455		
WR									
SR *	1st Aug 2016 to 31st Aug 2016	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 one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit 1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.
	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 ICT at Misa. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
	Export	(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.
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit Low Voltage at Gazuwaka (East) Bus.

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Total Transfer Capability for August 2016**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	27/5/2016	Whole month	Revised considering the present high generation trend in Rajasthan state	WR-NR/ Import of NR
2	16/7/2016	Whole month	STOA margin revised due to anticipated outage of Talcher Stage-2 Unit -6 approved in 121st OCC of SRPC.	ER-SR/Import of SR
3	25/7/2016	Whole month	Revised due to commissioning of 400kV Ranchi-Chandawa-Gaya D/C, 765kV Varanasi-Kanpur D/C, 765kV Kanpur-Jhatikara S/C , 400kV Kanpur (GIS)-Kanpur D/C and considering total gen at Kawai, Chhabra, Kalisindh as 2500 MW.	WR-NR/ Import of NR
4	28/7/2016	1/8/2016 to 6/8/2016	Revised due to shutdown of 400 kV Kolar AC Filter Bus-2	ER-SR/Import of SR
5	31/7/2016	1/8/2016	Revised due to deferment of shutdown of 400 kV Kolar AC Filter Bus-2 and due to shutdown of 765 kV Raichur-Sholapur ckt 2	ER-SR/WR- SR/Import of SR
6	3/8/2016	4/8/2016 to 31/8/2016	STOA margin revised considering change in LTA/MTOA allocation	NR-ER/ NR-WR/ Simultaneous export of NR
		4/8/2016 to 9/8/2016	STOA margin revised considering the rescheduling of shutdown of Talcher unit 6	ER-SR/Import of SR
7	4/8/2016	5/8/2016	Revised due to emergency shutdown of 765/400 kV ICT-1 at Phagi considering the present generation at Kalisindh, Kawai and Chhabra	WR-NR/ Import of NR
8	9/8/2016	10/8/2016 & 12/8/2016	Revised due to shutdown of 765 kV Aurangabad - Sholapur ckt 1 & ckt 2 one at a time	WR-SR/ Import of SR
9	12/8/2016	13/8/2016 to 18/8/2016	Revised due to shutdown of Kolar AC filter Bus-2	ER-SR/ Import of SR

ASSUMPTIONS IN BASECASE					
				Month : August '16	
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	9279	9090	4255	4405
2	Haryana	7893	6794	2163	2163
3	Rajasthan	9034	8910	5291	5223
4	Delhi	5155	5079	988	988
5	Uttar Pradesh	13173	15204	6151	6190
6	Uttarakhand	1742	1281	964	1049
7	Himachal Pradesh	1211	956	1079	1022
8	Jammu & Kashmir	2220	1254	730	696
9	Chandigarh	307	210	0	0
10	ISGS/IPPs			21241	21080
	Total NR	49518	48289	42861	42815
II	EASTERN REGION				
1	Bihar	3200	3132	200	110
2	Jharkhand	960	879	400	350
3	Damodar Valley Corporation	2454	2089	3400	2871
4	Orissa	3788	2968	2929	1959
5	West Bengal	7574	6115	4768	3830
6	Sikkim	90	49	0	0
7	Bhutan	215	215	1504	1322
8	ISGS/IPPs	418	416	9746	9135
	Total ER	18699	15863	22947	19577
III	WESTERN REGION				
1	Maharashtra	20213	14173	15518	10116
2	Gujarat	13391	9603	9648	5998
3	Madhya Pradesh	8075	5070	3948	2185
4	Chattisgarh	4056	2853	3030	2123
5	Daman and Diu	318	254	0	0
6	Dadra and Nagar Haveli	696	632	0	0
7	Goa-WR	494	246	0	0
8	ISGS/IPPs	842	855	28198	23241
	Total WR	48085	33685	60343	43662

IV	SOUTHERN REGION				
1	Andhra Pradesh	7043	6324	6272	5515
2	Telangana	8617	7809	2837	2285
3	Karnataka	8642	6842	7177	5540
4	Tamil Nadu	15373	14479	8470	6570
5	Kerala	3677	2356	1650	684
6	Pondy	391	315	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	20	19	13647	13377
	Total SR	43852	38233	40053	33972
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	128	100	0	0
2	Assam	1219	1004	280	230
3	Manipur	160	84	0	0
4	Meghalaya	215	162	218	177
5	Mizoram	93	63	8	0
6	Nagaland	115	80	22	16
7	Tripura	251	152	91	91
8	ISGS/IPPs	100	60	1932	1795
	Total NER	2281	1705	2551	2309
	Total All India	162680	138020	170289	143672