

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

Issue Date:16/10/2015

Issue Time: 0000 hrs

Revision No. 16

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 Oct 2015 to 31st Oct 2015	00-24	2500	500	2000	706	1294		
WR-NR*	1st Oct 2015 to 6th Oct 2015	00-24	7450	500	6950	5638	1312		STOA margin revised due to operationalization of MTOA.
		7th Oct 2015 to 8th Oct 2015	00-07 07'-24		7450 6600	6950 6100	5638 5638	1312 462	
	9th Oct 2015	00-08	7450	500	6950	5638	1312		
		08'-24	6600		6100	5638	462		
	10th Oct 2015	00-07	7450	500	6950	5638	1312		
		07'-24	6400		5900	5638	262		
	11th Oct 2015	00-07	7450	500	6950	5638	1312		
		07'-24	7450		6950	5638	1312		
	12th Oct 2015	00-07	7450	500	6950	5638	1312		
		07'-24	6400		5900	5638	262		
	13th Oct 2015	00-24	7450	500	6950	5638	1312		
	14th Oct 2015	00-07	7450	500	6950	5638	1312		
		07'-24	6600		6100	5638	462		
	15th Oct 2015	00-07	7450	500	6950	5818	1132		
07'-24		6600	6100		5818	282			
16th Oct 2015 to 17th Oct 2015	00-07	7450	500	6950	5938	1012			
17th Oct 2015	07'-24	6600		6100	5938	162			
18th Oct 2015 to 31st Oct 2015	00-24	7450	500	6950	5938	1012			
NR-ER*	1st Oct 2015 to 31st Oct 2015	00-06	2000	200	1800	293	1507		
06-18'		2000	1800		358	1442			
18-24		2000	1800		293	1507			
ER-NR*	1st Oct 2015 to 31st Oct 2015	00-24	4800	300	4500	2431	2069		
W3-ER^s	1st Oct 2015 to 31st Oct 2015	00-24	No limit is being specified. No Re-routing is allowed via W3-ER-NR.						
ER-W3	1st Oct 2015 to 31st Oct 2015	00-24	No limit is being Specified.						
WR-SR	1st Oct 2015 to 4th Oct 2015	00-05	2700	750	1950	1950	0		
		05-22'	2300		1550	1550	0		
		22-24	2700		1950	1950	0		
	5th Oct 2015 to 10th Oct 2015	00-05	2830	750	2080	2080	0		
		05-22'	2830		2080	2080	0		
		22-24	2830		2080	2080	0		
	11th Oct 2015	00-08	2830	750	2080	2080	0		
		08-24'	1000	0	1000	2080	0		
	12th Oct 2015	00-05	2830	750	2080	2080	0		
		05-22'	2830		2080	2080	0		
		22-24	2830		2080	2080	0		
	13th Oct 2015 to 31st Oct 2015	00-05	3000	750	2250	2250	0		
05-22'		3000	2250		2250	0			
22-24		3000	2250		2250	0			
SR-WR *	1st Oct 2015 to 31st Oct 2015	00-24	No limit is being Specified.						

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ER-SR	1st Oct 2015 to 12th Oct 2015	00-06	2650	0	2650	2585	65		
		18-24					0		
	13th Oct 2015 to 14th Oct 2015	06-18'	2650	0	2650	2585	65		
		00-06					0		
		06-07'					0		
		07-18'					0		
	15th Oct 2015 to 31st Oct 2015	18-24'	2650	0	2650	2585	65		
		00-06					0		
SR-ER *	1st Oct 2015 to 31st Oct 2015	00-24	No limit is being Specified.						
S1-S2	1st Oct 2015 to 31st Oct 2015	00-24	S1-S2 corridor TTC/ATC is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.						
ER-NER	1st Oct 2015 to 13th Oct 2015	00-17	1390	45	1345	210	1135		
		23-24	1135		1090		880		
	14th Oct 2015 to 15th Oct 2015	00-07	1390	45	1345	210	1135		
		07-17'	900		855		645		
		17-23	1135		1090		880		
		23-24	1390		1345		1135		
	16th Oct 2015 to 31st Oct 2015	00-17	1390	45	1345	210	1135		
		23-24	1135		1090		880		
		17-23							
	NER-ER	1st Oct 2015 to 13th Oct 2015	00-17	1415	45	1370	0	1370	
23-24			1250	45	1205	1205			
14th Oct 2015 to 15th Oct 2015		00-07	1415	45	1370	0	1370		
		07-17'	670		625		625		
		17-23	1250		1205		1205		
		23-24	1415		1370		1370		
16th Oct 2015 to 31st Oct 2015		00-17	1415	45	1370	0	1370		
		23-24	1250	45	1205		1205		
W3 zone Injection	1st Oct 2015 to 05th Oct 2015	00-24	11000	200	10800	7576	3224		
	06th Oct 2015 to 12th Oct 2015	00-24	11000	200	10800	8106	2694		
	13th Oct 2015 to 31st Oct 2015	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)						

* 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	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 400 kV Biharshariff- Lakhisarai S/C
WR-SR & ER-SR	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2000 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
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 Oct 2015 to 6th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-08'	11150		10350		2281		
		08-19'	10650		9850		1781		
		19-24'	9950		9150		1081		
	7th Oct 2015 to 8th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-07'	11150		10350		2281		
		07-08'	9880		9080		1011		
		08-19'	9435		8635		566		
		19-24'	8824		8024		0		
	9th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-07'	11150		10350		2281		
		07-08'	11150		10350		2281		
		08-19'	9435		8635		566		
		19-24'	8824		8024		0		
	10th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-07'	11150		10350		2281		
		07-08'	9581		8781		712		
		08-19'	9149		8349		280		
		19-24'	8556		7756		0		
	11th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-07'	11150		10350		2281		
		07-08'	11150		10350		2281		
		08-19'	10650		9850		1781		
		19-24'	9950		9150		1081		
	12th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-07'	11150		10350		2281		
		07-08'	9581		8781		712		
		08-19'	9149		8349		280		
		19-24'	8556		7756		0		
	13th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-08'	11150		10350		2281		
		08-19'	10650		9850		1781		
		19-24'	9950		9150		1081		
	14th Oct 2015	00-05	10650	800	9850	8069	1781		
		05-07'	11150		10350		2281		
		07-08'	9880		9080		1011		
		08-19'	9435		8635		566		
		19-24'	8824		8024		0		
	15th Oct 2015 to 16th Oct 2015	00-05	10650	800	9850	8249	1601		
		05-07'	11150		10350		2101		
07-08'		9880	9080		831				
08-19'		9435	8635		386				
19-24'		8824	8024		0				

	16th Oct 2015 to 17th Oct 2015	00-05	10650	800	9850	8369	1481	STOA margin revised due to operationalization of MTOA.
		05-07'	11150		10350		1981	
		07-08'	9880		9080		711	
		08-19'	9435		8635		266	
		19-24'	8824		8024		0	
	18th Oct 2015 to 31st Oct 2015	00-05	10650	800	9850	8369	1481	
		05-08'	11150		10350		1981	
		08-19'	10650		9850		1481	
19-24'		9950	9150		781			
NER	1st Oct 2015 to 13th Oct 2015	00-17 23-24	1390	45	1345	210	1135	
		17-23	1135		1090		880	
	14th Oct 2015 to 15th Oct 2015	00-07	1390	45	1345	210	1135	
		07-17'	900		855		645	
		17-23	1135		1090		880	
		23-24	1390		1345		1135	
	16th Oct 2015 to 31st Oct 2015	00-17 23-24	1390	45	1345	210	1135	
		17-23	1135		1090		880	
	WR							
SR	1st Oct 2015 to 4th Oct 2015	00-05	5350	750	4600	4535	65	
		05-06'	4950		4200	4135	65	
		06-18'	4950		4200	4200	0	
		18-22'	4950		4200	4135	65	
		22-24	5350		4600	4535	65	
	5th Oct 2015 to 10th Oct 2015	00-05	5480	750	4730	4730	0	
		05-06'	5480		4730	4730	0	
		06-18'	5480		4730	4730	0	
		18-22'	5480		4730	4730	0	
		22-24	5480		4730	4730	0	
	11th Oct 2015	00-06	5480	750	4730	4665	65	
		06-08'	5480	750	4730	4730	0	
		08-18'	3650	0	3650	4730	0	
		18-24	3650	0	3650	4665	0	
	12th Oct 2015	00-06	5480	750	4730	4665	65	
		06-18'	5480		4730	4730	0	
		18-24	5480		4730	4665	65	
	13th Oct 2015 to 14th Oct 2015	00-06	5650	750	4900	4835	65	
		06-07'	5650		4900	4900	0	
		07-18'	5650		4900	4900	0	
		18-24	5650		4900	4835	65	
	15th Oct 2015 to 31st Oct 2015	00-06	5650	750	4900	4835	65	
		06-18'	5650		4900	4900	0	
18-24		5650	4900		4835	65		

* 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).

* 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

Margin for WR-NR applicants = $B * A/(B+C)$

Margin for ER-NR Applicants = $C * A/(B+C)$

Example: Margin for WR-NR applicants from 00-05 hours = $231 * 5900/(5900+4500) = 131$

Margin for ER-NR applicants from 00-05 hours = $231 * 4500/(5900+4500) = 100$

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 Oct 2015 to 31st Oct 2015	00-06	4500	700	3800	999	2801		
		06-18'			3800	1064	2736		
		18-24	4500		3800	999	2801		
NER	1st Oct 2015 to 13th Oct 2015	00-17	1415	45	1370	0	1370		
		23-24			1205		1205		
		17-23	1250		1205				
	14th Oct 2015 to 15th Oct 2015	00-07	1415	45	1370	0	1370		
		07-17'	670		625				
		17-23	1250		1205				
		23-24	1415		1370				
	16th Oct 2015 to 31st Oct 2015	00-17	1415	45	1370	0	1370		
		23-24	1250		1205				
WR									
SR *	1st Oct 2015 to 31st Oct 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 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
	Export	ICT at Misa
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur leads to 2000 MW loading on the other circuit
		Low Voltage at Gazuwaka (East) Bus.

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Total Transfer Capability for October 2015**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	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
2	8/26/2015	Whole Month	Revised due to commissioning of 765kV Gwalior-Phagi Ckt-1&2, 765kV Phagi-Bhiwani S/C and STOA margin revised due to operationalization of MTOA.	WR-NR/ Import of NR
			STOA Margin revised due to Operationalization of LTA.	W3 Zone Injection
3	9/2/2015	Whole Month	A remark has been put on Simultaneous Import of NR for approving STOA Bilateral Transactions	Import of NR
4	9/24/2015	Whole Month	Revised due to revision in 765kV Gwalior-Agra Ckt-1&2 SPS setting.	WR-NR/ Import of NR
			Revised due to commissioning of 765kV Dharamjaigarh-Jabalpur D/C.	W3 Zone Injection
5	9/28/2015	Whole Month	Revised due to commissioning of 765kV Dharamjaigarh-Jabalpur D/C.	ER-W3
			Revised considering the present Maharashtra demand pattern.	WR-SR
6	9/30/2015	Whole Month	Revised due to outage of Vindhyachal BTB HVDC Block-1.	WR-NR/ Import of NR
7	4/10/2015	05-10-2015 to 31-10-2015	Revised due to completion of trial operation of 765kV Aurangabad-Sholapur Ckt-2	WR-SR
8	10/5/2015	06-10-2015 to 31-10-2015	LTA/MTOA revised after operationalization of LTA as intimated by CTU after completion of trial operation of 765kV Aurangabad-Sholapur Ckt-2	W3 Zone Injection

9	10/6/2015	07-10-2015 to 08-10-2015	Revised due to shutdown of 765 kV Gwalior - Phagi ckt 1 and ckt 2 one at a time	WR-NR/ Import of NR
10	10/8/2015	10/9/2015	Revised due to shutdown of 765 kV Gwalior - Phagi ckt 1	WR-NR/ Import of NR
		10-10-2015 to 11-10-2015	Revised due to shutdown of 765 kV Gwalior - Agra ckt 1 and ckt 2 one at a time	
11	10/10/2015	11/10/2015	Revised due to shutdown of 765kV Raichur-Sholapur-1	WR-SR
		11-10-2015 to 12-10-2015	Revised due to deferrment of 765kV Gwalior-Agra Ckt-2 shutdown on 11th Oct'15 to 12th Oct'15	WR-NR/ Import of NR
		13-10-2015 to 14-10-2015	Revised due to shutdown of 400kV Rengali-Indravati	ER-SR
12	10/12/2015	13-10-2015 to 31-10- 2015	Revised due to commissioning of 765 kV Aurangabad - Sholapur ckt 1	WR-SR
			Revised due commissioning of 765 kV Aurangabad-Sholapur D/C, 765 kV Dharamjaigarh - Jabalpur D/C and the present inter regional power flow pattern	W3 Zone Injection
13	10/12/2015	13-10-2015 to 14-10- 2015	Revised due to deferment of shutdown of 400 kV Rengali - Indravati	ER-SR
14	10/13/2015	14-10-2015 to 15-10- 2015	Revised due to shutdown of 400 kV Bongaigaon-Byrnihat S/C and 400 kV Silchar-Azara S/C on 14th & 15th.	ER-NER/ NER- ER
15	10/13/2015	15-10-2015 to 17-10- 2015	Revised due to shutdown of 765 kV Gwalior - Phagi ckt 1 and ckt 2 one at a time and STOA margin revised due to operationalization of MTOA.	WR-NR/ Import of NR
		18-10-2015 to 31-10- 2015	STOA margin revised due to operationalization of MTOA.	
16	10/16/2015	16-10-2015 to 31-10- 2015	STOA margin revised due to operationalization of MTOA.	WR-NR/ Import of NR

ASSUMPTIONS IN BASECASE					
				Month : October '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	7657	6004	4196	4242
2	Haryana	7576	6766	3317	3317
3	Rajasthan	9178	9897	6114	6110
4	Delhi	4449	2882	1156	1156
5	Uttar Pradesh	12168	10933	5913	5851
6	Uttarakhand	1573	1277	556	404
7	Himachal Pradesh	1253	978	418	435
8	Jammu & Kashmir	2244	1746	240	232
9	Chandigarh	238	147	0	0
10	ISGS/IPPs	0	0	18220	12306
	Total NR	46336	40630	40130	34053
II	EASTERN REGION				
1	Bihar	2686	1884	240	120
2	Jharkhand	995	793	552	300
3	Damodar Valley Corporation	2487	2030	3831	3261
4	Orissa	3593	2796	3378	2483
5	West Bengal	7396	6253	5086	4000
6	Sikkim	99	59	0	0
7	Bhutan	338	337	1490	1150
8	ISGS/IPPs	610	566	11062	9925
	Total ER	18204	14717	25639	21239
III	WESTERN REGION				
1	Maharashtra	20077	12639	14900	8194
2	Gujarat	14392	8618	11287	5509
3	Madhya Pradesh	8008	5948	4832	3049
4	Chattisgarh	3838	3825	2611	2851
5	Daman and Diu	310	237	0	0
6	Dadra and Nagar Haveli	784	581	0	0
7	Goa-WR	521	298	0	0
8	ISGS/IPPs	1056	1055	23713	21264
	Total WR	48986	33200	57341	40867

IV	SOUTHERN REGION				
1	Andhra Pradesh	5870	5494	5192	4701
2	Telangana	7082	6346	3246	2362
3	Karnataka	7654	5943	7091	5422
4	Tamil Nadu	12244	10949	6990	5376
5	Kerala	3271	2218	1782	820
6	Pondy	323	278	0	0
7	Goa-SR	86	76	0	0
8	ISGS/IPPs	0	0	9622	9622
	Total SR	36530	31304	33923	28303
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	107	44	0	0
2	Assam	969	719	265	195
3	Manipur	113	69	0	0
4	Meghalaya	295	197	214	163
5	Mizoram	76	44	4	4
6	Nagaland	95	70	16	6
7	Tripura	260	162	105	105
8	ISGS/IPPs	7	7	1313	856
	Total NER	1922	1312	1917	1329
	Total All India	151979	121164	158951	125791