

**National Load Despatch Centre**  
**Total Transfer Capability for February 2017**

Issue Date: 25/2/2017

Issue Time: 1430 hrs

Revision No. 10

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 Feb 2017 to 28th Feb 2017	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st Feb 2017 to 2nd Feb 2017	00-24	6950	500	6450	6850	0		
	3rd Feb 2017 to 6th Feb 2017	00-24	6450	500	5950	6850	0		
	7th Feb 2017 to 22nd Feb 2017	00-24	6950	500	6450	6850	0		
	23rd Feb 2017	00-07	6950	500	6450	6850	0		
		07-24	6700		6200		0		
24th Feb 2017 to 28th Feb 2017	00-24	6950	500	6450	6850	0			
NR-ER*	1st Feb 2017 to 28th Feb 2017	00-06	2000	200	1800	193	1607		
		06-18'	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st Feb 2017 to 28th Feb 2017	00-24	4000	300	3700	2931	769		
W3-ER	1st Feb 2017 to 28th Feb 2017	00-24	No limit is being specified.						
ER-W3	1st Feb 2017 to 28th Feb 2017	00-24	No limit is being specified.						
WR-SR	1st Feb 2017 to 2nd Feb 2017	00-05	4400	750	3650	3384	266		
		05-22	4000		3250		0		
		22-24	4400		3650		266		
	3rd Feb 2017	00-05	4400	750	3650	3384	266		
		05-08	4000		3250		0		
		08-22	3750		3000		0		
		22-24	4150		3400		16		
	4th Feb 2017	00-05	4400	750	3650	3384	266		
		05-22	4000		3250		0		
		22-24	4400		3650		266		
	5th Feb 2017	00-05	4400	750	3650	3384	266		
		05-08	4000		3250		0		
		08-22	3750		3000		0		
		22-24	4150		3400		16		
	6th Feb 2017 to 13th Feb 2017	00-05	4400	750	3650	3384	266		
		05-22	4000		3250		0		
22-24		4400	3650		266				
14th Feb 2017	00-05	4400	750	3650	3384	266			
	05-08	4000		3250		0			
	08-22	3000		2250		0			
	22-24	3400		2650		0			

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ER-SR	15th Feb 2017 to 23th Feb 2017	00-05	3800	500	3300	2900	400			
		05-22	3400		2900		0			
		22-24	3800		3300		400			
	24th Feb 2017	00-05	3800	500	3300	2900	400			
		05-07	3400		2900		0			
		07-22	2300		1800		0			
		22-24	2700		2200		0			
	25th Feb 2017 to 28th Feb 2017	00-05	3800	500	3300	2900	400			
		05-22	3400		2900		0			
		22-24	3800		3300		400			
	SR-WR *	1st Feb 2017 to 28th Feb 2017	00-24	No limit is being Specified.						
	ER-SR	1st Feb 2017 to 14th Feb 2017	00-06	2650	0	2650	2565	85		
06-18'			2650				0			
18-24			2565				85			
15th Feb 2017 to 23th Feb 2017		00-06	3450	250	3200	3429	0			
		06-18'				3514	0			
		18-24				3429	0			
24th Feb 2017		00-06	3450	250	3200	3429	0			
		06-07'				3514	0			
		07-18	3300		3050	3514	0			
		18-24				3429	0			
25th Feb 2017 to 28th Feb 2017		00-06	3450	250	3200	3429	0			
		06-18'				3514	0			
	18-24	3429				0				
SR-ER *	1st Feb 2017 to 28th Feb 2017	00-24	No limit is being Specified.							
ER-NER	1st Feb 2017 to 7th Feb 2017	00-17	1150	45	1105	225	895			
		17-23					1050	795		
		23-24					1150	895		
	8th Feb 2017	00-07	1150	45	1105	225	895			
		07-17					980	725		
		17-23					1050	795		
		23-24					1150	895		
	9th Feb 2017 to 25th Feb 2017	00-17	1150	45	1105	225	895			
		17-23					1050	795		
		23-24					1150	895		
	26th Feb 2017	00-04	1150	45	1105	225	880		Revised due to day-time shutdown of 400 kV Bongaigaon - Alipurduar 1 & 2 for stringing HVDC line till Alipurduar	
		04-17					980	710		-170
		17-23					980	710		-70
		23-24					980	710		-170
	27th Feb 2017 to 28th Feb 2017	00-17	1150	45	1105	225	880			
17-23		1050					780			
23-24		1150					880			

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NER-ER	1st Feb 2017 to 7th Feb 2017	00-17	1130	45	1085	0	1085		
		17-23	1180		1135		910		
		23-24	1130		1085		1085		
	8th Feb 2017	00-07	1130	45	1085	0	1085		
		07-17	1000		955		955		
		17-23	1180		1135		1135		
	9th Feb 2017 to 25th Feb 2017	00-17	1130	45	1085	0	1085		
		17-23	1180		1135		910		
		23-24	1130		1085		1085		
	26th Feb 2017	00-04	1130	45	1085	0	1085		Revised due to day-time shutdown of 400 kV Bongaigaon - Alipurduar 1 & 2 for stringing HVDC line till Alipurduar
		04-17	1000		955		955	-130	
		17-23	1000		955		955	-180	
	27th Feb 2017 to 28th Feb 2017	00-17	1130	45	1085	0	1085		
		17-23	1180		1135		1135		
		23-24	1130		1085		1085		

<b>W3 zone Injection</b>	1st Feb 2017 to 28th Feb 2017	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
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**Note: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), 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 and Puducherry; S3 comprises Kerala

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 o)RKM, p)GMR Raikheda, q)Ind Barath and any other regional entity generator in Chhattisgarh

# 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-Pusaui
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c
WR-SR & ER-SR	(n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C) Low Voltage at Gazuwaka (East) Bus.
ER-NER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)
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
SR	1st Feb 2017 to 2nd Feb 2017	00-05	7050	750	6300	5949	351		
		05-06	6650		5900	5949	0		
		06-18	6650		5900	6034	0		
		18-22	6650		5900	5949	0		
		22-24	7050		6300	5949	351		
	3rd Feb 2017	00-05	7050	750	6300	5949	351		
		05-06	6650		5900	5949	0		
		06-08	6650		5900	6034	0		
		08-18	6400		5650	6034	0		
		18-22	6400		5650	5949	0		
		22-24	6800		6050	5949	101		
	SR	4th Feb 2017	00-05	7050	750	6300	5949	351	
05-06			6650	5900		5949	0		
06-18			6650	5900		6034	0		
18-22			6650	5900		5949	0		
22-24			7050	6300		5949	351		
5th Feb 2017		00-05	7050	750	6300	5949	351		
		05-06	6650		5900	5949	0		
		06-08	6650		5900	6034	0		
		08-18	6400		5650	6034	0		
		18-22	6400		5650	5949	0		
		22-24	6800		6050	5949	101		
6th Feb 2017 to 13th Feb 2017		00-05	7050	750	6300	5949	351		
		05-06	6650		5900	5949	0		
		06-18	6650		5900	6034	0		
		18-22	6650		5900	5949	0		
		22-24	7050		6300	5949	351		
14th Feb 2017		00-05	7050	750	6300	5949	351		
		05-06	6650		5900	5949	0		
		06-08	6650		5900	6034	0		
		08-18	5650		4900	6034	0		
		18-22	5650		4900	5949	0		
		22-24	6050		5300	5949	0		
15th Feb 2017 to 23rd Feb 2017		00-05	7250	750	6500	6329	171		
		05-06	6850		6100	6329	0		
	06-18	6850	6100		6414	0			
	18-22	6850	6100		6329	0			
	22-24	7250	6500		6329	171			
24th Feb 2017	00-05	7250	750	6500	6329	171			
	05-06	6850		6100	6329	0			
	06-07	6850		6100	6414	0			
	07-18	5600		4850	6414	0			
	18-22	5600		4850	6329	0			
	22-24	6000		5250	6329	0			
25th Feb 2017 to 28th Feb 2017	00-05	7250	750	6500	6329	171			
	05-06	6850		6100	6329	0			
	06-18	6850		6100	6414	0			
	18-22	6850		6100	6329	0			
	22-24	7250		6500	6329	171			

**Simultaneous Import Capability**

<b>Corridor</b>	<b>Date</b>	<b>Time Period (hrs)</b>	<b>Total Transfer Capability (TTC)</b>	<b>Reliability Margin</b>	<b>Available Transfer Capability (ATC)</b>	<b>Long Term Access (LTA)/ Medium Term Open Access (MTOA)</b>	<b>Margin Available for Short Term Open Access (STOA)</b>	<b>Changes in TTC w.r.t. Last Revision</b>	<b>Comments</b>
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\* 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 =  $A * B / (B + C)$   
 Margin for ER-NR Applicants =  $A * C / (B + C)$

## 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 Feb 2017 to 28th Feb 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st Feb 2017 to 7th Feb 2017	00-17	1130	45	1085	0	1085		
		17-23	1180		1135		1135		
		23-24	1130		1085		1085		
	8th Feb 2017	00-07	1130	45	1085	0	1085		
		07-17	1000		955		955		
		17-23	1180		1135		1135		
		23-24	1130		1085		1085		
	9th Feb 2017 to 28th Feb 2017	00-17	1130	45	1085	0	1085		
		17-23	1180		1135		887		
		23-24	1130		1085		1085		
	WR								
	SR *	1st Feb 2017 to 28th Feb 2017	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) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon 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	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)
	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 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C). Low Voltage at Gazuwaka (East) Bus.

**National Load Despatch Centre  
Total Transfer Capability for February 2017**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	24/1/2016	Whole Month	Revised considering the present inter regional flow pattern of WR-NR and ER-NR. Changes in LTA and MTOA and high generation in Rihand-Singrauli-Anpara complex factored.	WR-NR/ Import of NR
			Revised considering present Maharashtra Demand/Generation and Voltage profile at Sholapur (PG), Parli(PG) etc. during night hours. STOA margin revised considering changes in LTA and MTOA.	WR-SR/ Import of SR
			STOA margin revised considering changes in LTA and MTOA	ER-NER/NER import/NR export/
2	02-02-2017	3/2/2017 to 6/2/2017	Revised due to shut down of 400 kV Anpara -Sarnath ckt 2 and 400 kV Anpara-Mau	WR-NR/ Import of NR
		02-03-2017	Revised due to shutdown of 400 kV Bhadrawati - Ramagundam ckt 1	WR-SR/ Import of SR
3	02-03-2017	02-05-2017	Revised due to shutdown of 400 kV Bhadrawati - Ramagundam ckt 2	WR-SR/ Import of SR
4	02-04-2017	5/2/2017 to 28/2/017	Revised considering change in inter regional flow pattern	Import of NR
5	02-07-2017	02-08-2017	Revised due to shutdown of 400 kV Bongaigaon-Alipurduar-1 & 2.	ER-NER/ NER- ER
6	13/2/2017	14/2/2017	Revised due to shutdown of 765 kV Bus-II at Sholapur	WR-SR/ Import of SR
7	14/2/2017	15/2/2017 to 28/2/2017	Revised due to commissioning of 765 kV Angul-Srikakulam-Vemagiri D/C, LILO of 400 kV Gazuwaka - Nunna at Vemagiri (PG), and opening of 400 kV Vemagiri-Nunna S/C. STOA margin revised due to operationalization of MTOA.	WR-SR/ ER- SR/ Import of SR
8	22-02-2017	23-02-2017	Revised due to shutdown of Rihand-Dadri HVDC Bipole.	WR-NR/ Import of NR
9	23-02-2017	24-02-2017	Revised due to shutdown of 765 kV Aurangabad-Solapur I&II (one ckt at a time) and 765 kV Solapur Bus-I shutdown	WR-SR/ ER- SR/ Import of SR
10	25-02-2017	26-02-2017	Revised due to day-time shutdown of 400 kV Bongaigaon - Alipurduar 1 & 2 for stringing HVDC line till Alipurduar	NER-ER / ER- NER



ASSUMPTIONS IN BASECASE					
				Month : February'17	
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	5746	4065	1957	1809
2	Haryana	6639	3242	2061	2061
3	Rajasthan	9987	10117	5975	5958
4	Delhi	3870	1710	551	551
5	Uttar Pradesh	12490	12623	6574	6557
6	Uttarakhand	1828	1263	851	568
7	Himachal Pradesh	1422	912	331	117
8	Jammu & Kashmir	2151	2157	370	316
9	Chandigarh	230	103	0	0
10	ISGS/IPPs	28	28	19457	11890
	Total NR	44391	36220	38126	29826
II	EASTERN REGION				
1	Bihar	3400	2500	200	131
2	Jharkhand	1250	950	400	400
3	Damodar Valley Corporation	2600	2200	3121	2971
4	Orissa	3988	2894	2759	1699
5	West Bengal	6500	5600	4684	3876
6	Sikkim	80	51	0	0
7	Bhutan	245	245	230	0
8	ISGS/IPPs	568	574	11432	10302
	Total ER	18602	14984	22827	19379
III	WESTERN REGION				
1	Maharashtra	19293	12770	14529	9166
2	Gujarat	12390	10098	9312	7542
3	Madhya Pradesh	10750	6256	6974	4414
4	Chattisgarh	3901	2545	2830	1869
5	Daman and Diu	316	223	0	0
6	Dadra and Nagar Haveli	709	634	0	0
7	Goa-WR	500	242	0	0
8	ISGS/IPPs	3099	3034	30497	24532
	Total WR	50958	35801	64142	47523

IV	SOUTHERN REGION				
1	Andhra Pradesh	7623	5809	6925	5986
2	Telangana	7581	6600	2994	2593
3	Karnataka	9672	8561	6816	4843
4	Tamil Nadu	13800	11286	6452	4810
5	Kerala	3841	2893	1545	604
6	Pondy	395	293	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	14187	12153
	Total SR	43001	35531	38919	30989
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	87	45	0	0
2	Assam	939	686	240	140
3	Manipur	113	73	0	0
4	Meghalaya	258	158	117	62
5	Mizoram	73	51	8	8
6	Nagaland	80	68	8	6
7	Tripura	193	111	80	80
8	ISGS/IPPs	60	50	1294	937
	Total NER	1803	1242	1747	1232
	Total All India	159000	124023	165990	128950