

National Load Despatch Centre
Total Transfer Capability for January 2017

Issue Date: 26/1/2017

Issue Time: 1300 hrs

Revision No. 7

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 Jan 2017 to 31st Jan 2017	00-06	2500	500	2000	55	1945			
		06-18				65	1935			
		18-24				55	1945			
WR-NR*	1st Jan 2017 to 20th Jan 2017	00-24	7200	500	6700	6850	0			
	21st Jan 2017 to 31st Jan 2017	00-24	6950	500	6450	6850	0			
NR-ER*	1st Jan 2017 to 31st Jan 2017	00-06	2000	200	1800	193	1607			
		06-18'	2000		1800	303	1497			
		18-24	2000		1800	193	1607			
ER-NR*	1st Jan 2017 to 31st Jan 2017	00-24	4200	300	3900	2931	969			
W3-ER	1st Jan 2017 to 31st Jan 2017	00-24	No limit is being specified.							
ER-W3	1st Jan 2017 to 31st Jan 2017	00-24	No limit is being specified.							
WR-SR	1st Jan 2017 to 20th Jan 2017	00-05	4400	750	3650	3384	266			
		05-22	4000		3250		0			
		22-24	4400		3650		266			
	21st Jan 2017 to 22nd Jan 2017	00-05	4400	750	3650	3384	266			
		05-07	4000		3250		0			
		07-22	3000		2250		0			
		22-24	3400		2650		0			
	23rd Jan 2017 to 31st Jan 2017	00-05	4400	750	3650	3384	266			
		05-22	4000		3250		0			
		22-24	4400		3650		266			
	SR-WR *	1st Jan 2017 to 31st Jan 2017	00-24	No limit is being Specified.						
	ER-SR	1st Jan 2017 to 4th Jan 2017	00-06	2650	0	2650	2565	85		
06-18'			2650				0			
18-24			2565				85			
5th Jan 2017 to 8th Jan 2017		00-06	2650	0	2650	2565	85			
		06-18'	2350		2350	2650	0			
		18-24	2350		2350	2565	0			
9th Jan 2017 to 11th Jan 2017		00-06	2650	0	2650	2565	85			
		06-18'				2650	0			
		18-24				2565	85			
12th Jan 2017		00-06	2650	0	2650	2565	85			
		06-09	2650		2650	0				
		09-14	2500		2500	2650	0			
		14-18	2650		2650	0				
		18-24	2650		2650	2565	85			
13th Jan 2017		00-06	2650	0	2650	2565	85			
		06-18'				2650	0			
		18-24				2565	85			
14th Jan 2017 to 16th Jan 2017		00-06	2650	0	2650	2565	85			
		06-07				2650	0			
		07-18				2350	2650	0		
		18-24				2350	2565	85		
17th Jan 2017 to 31st Jan 2017		00-06	2650	0	2650	2565	85			
		06-18'				2650	0			
		18-24				2565	85			
SR-ER *		1st Jan 2017 to 31st Jan 2017	00-24	No limit is being Specified.						

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ER-NER	1st Jan 2017 to 26th Jan 2017	00-17	1220	45	1175	225	950			
		17-23	1150		1105		880			
		23-24	1220		1175		950			
	27th Jan 2017	00-07	1220	45	1175	225	950		Revised due to shutdown of 400 kV Malda-Purnea ckt 2	
		07-17	1000		955		730			
		17-23	1000		955		730			
		23-24	1000		955		730			
	28th Jan 2017 to 31st Jan 2017	00-17	1220	45	1175	225	950			
		17-23	1150		1105		880			
		23-24	1220		1175		950			
	NER-ER	1st Jan 2017 to 31st Jan 2017	00-17	1100	45	1055	0	1055		
			17-23	1100		1055		1055		
23-24			1100	1055		1055				

W3 zone Injection	1st Jan 2017 to 31st Jan 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 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 o)RKM, p)GMR Raikheha, 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-Pusauli
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c
WR-SR & ER-SR	00-05 hrs & 22-24 hrs: (n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2750 MW loading on the other circuit. 05-22 hrs: (n-1) contingency of one circuit of 765 kV Aurangabad - Sholapur will lead to 2750 MW loading on the other circuit and 10kV voltage dip at Sholapur (PG) 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
ER									
NR*	1st Jan 2017 to 18th Jan 2017	00-07	10300	800	9500	9781	0		
		07-18	10300		9500		0		
		18-23	9600		8800		0		
		23-24	10300		9500		0		
	19th Jan 2017 to 20th Jan 2017	00-05	10300	800	9500	9781	0		
		05-08	9600		8800		0		
		08-18	10300		9500		0		
		18-23	8800		8000		0		
		23-24	10300		9500		0		
	21st Jan 2017 to 31st Jan 2017	00-05	9950	800	9150	9781	0		
		05-08	9300		8500		0		
		08-18	9950		9150		0		
		18-23	8500		7700		0		
		23-24	9950		9150		0		
	NER	1st Jan 2017 to 26th Jan 2017	00-17	1220	45	1175	225	950	
17-23			1150	1105		880			
23-24			1220	1175		950			
27th Jan 2017		00-07	1220	45	1175	225	950	-220	Revised due to shutdown of 400 kV Malda-Purnea ckt 2
		07-17	1000		955		730	-150	
		17-23	1000		955		730	-220	
		23-24	1000		955		730		
28th Jan 2017 to 31st Jan 2017		00-17	1220	45	1175	225	950		
		17-23	1150		1105		880		
		23-24	1220		1175		950		
WR									
SR		1st Jan 2017 to 4th Jan 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 Jan 2017 to 8th Jan 2017	00-05	7050	750	6300	5949	351		
		05-06	6650		5900	5949	0		
		06-18	6350		5600	6034	0		
		18-22	6350		5600	5949	0		
		22-24	6750		6000	5949	51		
	9th Jan 2017 to 11th Jan 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		

SR	12th Jan 2017	00-05	7050	750	6300	5949	351	
		05-06	6650		5900	5949	0	
		06-09	6650		5900	6034	0	
		09-14	6500		5750	6034	0	
		14-18	6650		5900	6034	0	
		18-22	6650		5900	5949	0	
		22-24	7050		6300	5949	351	
	13th Jan 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 Jan 2017 to 16th Jan 2017	00-05	7050	750	6300	5949	351	
		05-06	6650		5900	5949	0	
		06-07	6650		5900	6034	0	
		07-18	6350		5600	6034	0	
		18-22	6350		5600	5949	0	
		22-24	6750		6000	5949	51	
	17th Jan 2017 to 20th Jan 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	
	21st Jan 2017 to 22nd Jan 2017	00-05	7050	750	6300	5949	351	
		05-06	6650		5900	5949	0	
		06-07	6650		5900	6034	0	
		07-18	5650		4900	6034	0	
		18-22	5650		4900	5949	0	
22-24		6050	5300		5949	0		
23rd Jan 2017 to 31st Jan 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		

* 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 Jan 2017 to 31st Jan 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24			3800	248	3552		
NER	1st Jan 2017 to 31st Jan 2017	00-17	1100	45	1055	0	1055		
		17-23	1100		1055		807		
		23-24	1100		1055		1055		
WR									
SR *	1st Jan 2017 to 31st Jan 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	00-05 hrs & 22-24 hrs: (n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2750 MW loading on the other circuit. 05-22 hrs: (n-1) contingency of one circuit of 765 kV Aurangabad - Sholapur will lead to 2750 MW loading on the other circuit and 10kV voltage dip at Sholapur (PG)
		Low Voltage at Gazuwaka (East) Bus.

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

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	28/12/2016	Whole Month	Revised due to Commissioning of 400kV RAPC-Shujalpur D/C & Operationalization of LTA/MTOA.	WR-NR/ Import of NR
			Revised due to present Maharashtra Demand/Generation and Voltage profile at Sholapur (PG), Parli(PG) etc. during night hours.	WR-SR/ Import of SR
2	4/1/2017	5/1/2017 to 8/1/2017	Revised due to shutdown of 400 kV Jeypore-Bolangir	ER-SR/ Import of SR
3	11/1/2017	12/1/2017	Revised due to shutdown of 400 kV Jeypore-Gazuwaka-1	ER-SR/ Import of SR
4	12/1/2017	14/1/2017 to 16/1/2017	Revised due to shutdown of 400 kV Angul-Bolangir	ER-SR/ Import of SR
5	18/1/2017	19/1/2017 to 31/1/2017	Revised considering the present inter regional flow pattern of WR-NR and ER-NR	Import of NR
6	20/1/2017	21/1/2017 to 31/1/2017	Revised due to high generation in the Rihand-Singrauli-Anpara generation complex.	WR-NR/ Import of NR
		21/1/2017 to 22/1/2017	Revised due to shutdown of 400 kV Wardha-Parli D/C	WR-SR/ Import of SR
7	26/1/2017	27/1/2017	Revised due to shutdown of 400 kV Malda-Purnea ckt 2	ER- NER/import of NER

ASSUMPTIONS IN BASECASE					
				Month : January'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