

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

Issue Date: 28/11/2016

Issue Time: 2015 hrs

Revision No. 0

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 Mar 2017 to 31st Mar 2017	00-06	2500	500	2000	55	1945		
		06-18'				65	1935		
		18-24				55	1945		
WR-NR*	1st Mar 2017 to 31st Mar 2017	00-24	7200	500	6700	6850	0		
NR-ER*	1st Mar 2017 to 31st Mar 2017	00-06	2000	200	1800	193	1607		
		06-18'	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st Mar 2017 to 31st Mar 2017	00-24	4000	300	3700	2931	769		
W3-ER	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being specified.						
ER-W3	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being specified.						
WR-SR	1st Mar 2017 to 31st Mar 2017	00-24	4000	750	3250	3250	0		
SR-WR *	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being Specified.						
ER-SR	1st Mar 2017 to 31st Mar 2017	00-06	2650	0	2650	2565	85		
		06-18'				2650	0		
		18-24				2565	85		
SR-ER *	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being Specified.						
ER-NER	1st Mar 2017 to 31st Mar 2017	00-17	1250	45	1205	205	995		
		17-23	1105		1060	225	850		
		23-24	1250		1205	205	995		
NER-ER	1st Mar 2017 to 31st Mar 2017	00-17	1135	45	1090	0	1090		
		17-23	1210		1165		1165		
		23-24	1135		1090		1090		
W3 zone Injection	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being specified (In case of 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).

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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) NSPCL, h) Korba, i) Sipat, j) KSK Mahanadi, k) DB Power, l) KWPC, m) Vandana Vidut, n) RKM, o) GMR Raikhed, p) 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	(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	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Samaguri - Sonabil line(200 MW)
NER-ER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Samaguri - Sonabil line(200 MW)
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 Mar 2017 to 31st Mar 2017	00-05	9000	800	8200	9781	0		
		05-08'	9000		8200		0		
		08-19'	9000		8200		0		
		19-24	9000		8200		0		
NER	1st Mar 2017 to 31st Mar 2017	00-17	1250	45	1205	205	1000		
		17-23	1105		1060	225	835		
		23-24	1250		1205	205	1000		
WR									
SR	1st Mar 2017 to 31st Mar 2017	00-06	6650	750	5900	5815	85		
		06-18'	6650		5900	5900	0		
		18-24	6650		5900	5815	85		

* 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 Mar 2017 to 31st Mar 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24			3800	248	3552		
NER	1st Mar 2017 to 31st Mar 2017	00-17	1135	45	1090	0	1090		
		17-23	1210		1165		1165		
		23-24	1135		1090		1090		
WR									
SR *	1st Mar 2017 to 31st Mar 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	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Samaguri - Sonabil line(200 MW)
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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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected

ASSUMPTIONS IN BASECASE					
				Month : March'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	5629	3905	2165	2115
2	Haryana	6250	3218	2173	2173
3	Rajasthan	9749	9900	5592	5605
4	Delhi	3315	2025	391	391
5	Uttar Pradesh	12944	13358	7157	7086
6	Uttarakhand	1691	1178	691	538
7	Himachal Pradesh	1364	827	366	261
8	Jammu & Kashmir	2275	2425	630	448
9	Chandigarh	191	101	0	0
10	ISGS/IPPs	28	28	18214	11614
	Total NR	43436	36966	37378	30230
II	EASTERN REGION				
1	Bihar	3404	2483	200	131
2	Jharkhand	982	894	400	400
3	Damodar Valley Corporation	2456	2135	3741	3372
4	Orissa	4130	3171	3359	2199
5	West Bengal	7288	5463	5049	3656
6	Sikkim	69	40	0	0
7	Bhutan	245	245	272	47
8	ISGS/IPPs	570	576	10672	9246
	Total ER	19113	14977	23663	19036
III	WESTERN REGION				
1	Maharashtra	20050	13792	14419	9489
2	Gujarat	13203	9864	9505	7573
3	Madhya Pradesh	9224	7473	4125	3958
4	Chattisgarh	3811	2773	2830	2020
5	Daman and Diu	313	251	0	0
6	Dadra and Nagar Haveli	700	621	0	0
7	Goa-WR	506	238	0	0
8	ISGS/IPPs	3043	3081	32131	27122
	Total WR	50850	38093	63009	50162

IV	SOUTHERN REGION				
1	Andhra Pradesh	8039	7097	7416	6276
2	Telangana	8119	7354	3817	3162
3	Karnataka	9710	8714	7461	5612
4	Tamil Nadu	14679	12052	6897	6400
5	Kerala	4152	3130	1752	687
6	Pondy	395	285	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	120	98	14289	12353
	Total SR	45303	38819	41631	34491
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	105	50	0	0
2	Assam	1050	745	230	140
3	Manipur	146	68	0	0
4	Meghalaya	271	156	159	80
5	Mizoram	87	52	8	4
6	Nagaland	100	74	12	8
7	Tripura	185	101	76	76
8	ISGS/IPPs	65	60	1564	995
	Total NER	2009	1306	2049	1303
	Total All India	160957	130406	168002	135269