

National Load Despatch Centre
Total Transfer Capability for March 2017

Issue Date: 8th March 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 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 2nd Mar 2017	00-24	6950	500	6450	6850	0		
	3rd Mar 2017 to 8th Mar 2017	00-24	7550	500	7050	6850	200		
	9th Mar 2017	00-08	7550	500	7050	6850	200		
		08-24'	7050	500	6550	6850	0	-500	Revised due to Shutdown of 765/400kV ICT-1 at Agra.
	10th Mar 2017 to 31st Mar 2017	00-24	7550	500	7050	6850	200		
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	00-05	3800	500	3300	2900	400		
		05-22	3400		2900		0		
		22-24	3800		3300		400		
SR-WR *	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being Specified.						
ER-SR	1st Mar 2017 to 5th Mar 2017	00-06	3450	250	3200	3232	0		
		06-18'				3317	0		
		18-24				3232	0		
	6th Mar 2017	00-05	3450	250	3200	3232	0		
		05-06	1450		1200	3232	0		
		06-18'	1450		1200	3317	0		
		18-22	1450		1200	3232	0		
		22-24	2450		2200	3232	0		
	7th Mar 2017 to 11th Mar 2017	00-05	2450	250	2200	3232	0		
		05-06	1450		1200	3232	0		
		06-18'	1450		1200	3317	0		
		18-22	1450		1200	3232	0		
	12th Mar 2017 to 31st Mar 2017	22-24	2450	250	2200	3232	0		
		00-06	3450		3200	3232	0		
		06-18'				3317	0		
18-24	3232	0							

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SR-ER *	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being Specified.							
ER-NER	1st Mar 2017 to 5th Mar 2017	00-17	1250	45	1205	225	980			
		17-23	1105		1060		835			
		23-24	1250		1205		980			
	6th Mar 2017	00-08	1250	45	1205	225	980			
		08-17	1030		985		760			
		17-23	1105		1060		835			
	7th Mar 2017	23-24	1250	45	1205	225	980			
		00-08	1050		1005		780			
		08-17	1030		985		760			
		17-23	905		860		635			
	8th Mar 2017 to 12th Mar 2017	23-24	1050	45	1005	225	780			
		00-17	1050		1005		780			
		17-23	905		860		635			
	13th Mar 2017 to 31st Mar 2017	23-24	1050	45	1005	225	780			
		00-17	1250		1205		980			
		17-23	1105		1060		835			
	NER-ER	1st Mar 2017 to 5th Mar 2017	23-24	1250	45	1205	0	980		
			00-17	1135		1090		1090		
17-23			1210	1165		1165				
6th Mar 2017		23-24	1135	45	1090	0	1090			
		00-08	1135		1090		1090			
		08-17	840		795		795			
		17-23	1210		1165		1165			
7th Mar 2017		23-24	1135	45	1090	0	1090			
		00-08	935		890		890			
		08-17	840		795		795			
		17-23	1010		965		965			
8th Mar 2017 to 12th Mar 2017		23-24	1135	45	1090	0	1090			
		00-17	935		890		890			
		17-23	1010		965		965			
13th Mar 2017 to 31st Mar 2017		23-24	935	45	890	0	890			
		00-17	1135		1090		1090			
		17-23	1210		1165		1165			
W3 zone Injection		1st Mar 2017 to 31st Mar 2017	23-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
	00-17									
	17-23									

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.

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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).

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) KWPC, 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-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 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 Mar 2017 to 5th Mar 2017	00-05	7250	750	6500	6132	368		
		05-06	6850		6100	6132	0		
		06-18	6850		6100	6217	0		
		18-22	6850		6100	6132	0		
		22-24	7250		6500	6132	368		
	6th Mar 2017	00-05	7250	750	6500	6132	368		
		05-06	4850		4100	6132	0		
		06-18	4850		4100	6217	0		
		18-22	4850		4100	6132	0		
		22-24	6250		5500	6132	0		
	7th Mar 2017 to 11th Mar 2017	00-05	6250	750	5500	6132	0		
		05-06	4850		4100	6132	0		
		06-18	4850		4100	6217	0		
		18-22	4850		4100	6132	0		
		22-24	6250		5500	6132	0		
	12th Mar 2017 to 31st Mar 2017	00-05	7250	750	6500	6132	368		
		05-06	6850		6100	6132	0		
		06-18	6850		6100	6217	0		
		18-22	6850		6100	6132	0		
		22-24	7250		6500	6132	368		

* 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 5th Mar 2017	00-17	1135	45	1090	0	1090			
		17-23	1210		1165		1165			
		23-24	1135		1090		1090			
	6th Mar 2017	00-08	1135	45	1090	0	1090			
		08-17	840		795		795			
		17-23	1210		1165		1165			
		23-24	1135		1090		1090			
	7th Mar 2017	00-08	935	45	890	0	890			
		08-17	840		795		795			
		17-23	1010		965		965			
		23-24	1135		1090		1090			
	8th Mar 2017 to 12th Mar 2017	00-17	935	45	890	0	890			
		17-23	1010		965		965			
		23-24	935		890		890			
	13th 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	(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.

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	27/2/2017	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 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
2	27/2/2017	Whole Month	STOA margin revised due to change in LTA/MTOA	ER-SR/ Import of SR
3	2nd March 2017	3rd March 2017 to 31st March 2017	Revised considering the present load generation balance pattern	WR-NR/ Import of NR
4	3rd March 2017	6th March 2017 to 11th March 2017	Revised due to shutdown of both poles of HVDC Talcher - Kolar during 06-18 hrs & one pole of HVDC Talcher -Kolar during 18-24 hrs and 24-06 hrs	ER-SR/ Import of SR
5	4th March 2017	6th March 2017 to 7th March 2017	Revised due to shutdown of 400 kV Silchar - Azara S/C on 06th and 07th, and 220 kV Salakati - Alipurduar II on 06th March'17	ER-NER/NER-ER
6	6th March 2017	7th March 2017 to 12th March 2017	Revised due to shutdown of HVDC BNC-Agra Bipole and considering tower collapses of 400V Patna-Kishenganj D/C and 400kV Biharsariff-Purnea D/C.	ER-NER/NER-ER
7	8th March 2017	9th March 2017	Revised due to Shutdown of 765/400kV ICT-1 at Agra.	WR-NR/ Import of NR

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