

National Load Despatch Centre
Total Transfer Capability for March 2017

Issue Date: 6th March 2017

Issue Time: 1130 hrs

Revision No. 6

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 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	00-06	3450	250	3200	3232	0		
06-18		3317				0			
18-24		3232				0			
SR-ER *	1st Mar 2017 to 31st Mar 2017	00-24	No limit is being Specified.						

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ER-NER	1st Mar 2017 to 5th Mar 2017	00-17	1250	45	1205	225	980		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.
		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		
		23-24	1250		1205		980		
	7th Mar 2017	00-08	1050	45	1005	225	780	-200	
		08-17	1030		985		760		
		17-23	905		860		635		
		23-24	1050		1005		780		
	8th Mar 2017 to 12th Mar 2017	00-17	1050	45	1005	225	780	-200	
		17-23	905		860		635		
		23-24	1050		1005		780		
	13th Mar 2017 to 31st Mar 2017	00-17	1250	45	1205	225	980		
17-23		1105	1060		835				
23-24		1250	1205		980				
NER-ER	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	-200	
		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	-200	
		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				
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&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) 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.

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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 Mar 2017 to 2nd Mar 2017	00-05	9950	800	9150	9781	0		
		05-08	9300		8500		0		
		08-18	9950		9150		0		
		18-23	8900		8100		0		
		23-24	9950		9150		0		
	3rd Mar 2017 to 31st Mar 2017	00-05	10800	800	10000	9781	219		
		05-08	10100		9300		0		
		08-18	10800		10000		219		
		18-23	9700		8900		0		
		23-24	10800		10000		219		
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		
		23-24	1250		1205		980		
	7th Mar 2017	00-08	1050	45	1005	225	780	-200	
		08-17	1030		985		760		
		17-23	905		860		635		
		23-24	1050		1005		780		
	8th Mar 2017 to 12th Mar 2017	00-17	1050	45	1005	225	780	-200	
		17-23	905		860		635		
		23-24	1050		1005		780		
	13th Mar 2017 to 31st Mar 2017	00-17	1250	45	1205	225	980		
		17-23	1105		1060		835		
		23-24	1250		1205		980		
	WR								

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.

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	-200	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.
		08-17	840		795		795		
		17-23	1010		965		965	-200	
		23-24	1135		1090		1090		
	8th Mar 2017 to 12th Mar 2017	00-17	935	45	890	0	890	-200	
		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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Total Transfer Capability for March 2017**

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

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/PPs	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/PPs	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/PPs	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