

National Load Despatch Centre
Total Transfer Capability for May 2017

Issue Date: 02nd May 2017

Issue Time: 1430 hrs

Revision No. 4

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 May 2017 to 31st May 2017	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st May 2017 to 2nd May 2017	00-24	9050	500	8550	7951	599		Revised due to emergency shutdown of HVDC Mundra-Mohindergarh Pole-2
	3rd May 2017	00-07	9050	500	8550	7951	599		
		07-24'	8050	500	7550	7951	0	-1000	
	4th May 2017 to 31st May 2017	00-24	9050	500	8550	7951	599		
NR-ER*	1st May 2017 to 31st May 2017	00-06	2000	200	1800	193	1607		
		06-18'	2000			1800	303	1497	
		18-24	2000			1800	193	1607	
ER-NR*	1st May 2017 to 31st May 2017	00-24	4200	300	3900	2983	917		
W3-ER	1st May 2017 to 31st May 2017	00-24	No limit is being specified.						
ER-W3	1st May 2017 to 31st May 2017	00-24	No limit is being specified.						
WR-SR	1st May 2017 to 31st May 2017	00-05	4350	500	3850	3950	0		
		05-22	4350		3850		0		
		22-24	4350		3850		0		
SR-WR *	1st May 2017 to 31st May 2017	00-24	No limit is being Specified.						
ER-SR	1st May 2017 to 31st May 2017	00-06	3450	250	3200	3240	0		
		06-18'				3325	0		
		18-24				3240	0		
SR-ER *	1st May 2017 to 31st May 2017	00-24	No limit is being Specified.						
ER-NER	1st May 2017 to 31st May 2017	00-17	1200	45	1155	225	930		
		17-23	1100		1055		830		
		23-24	1200		1155		930		
NER-ER	1st May 2017 to 31st May 2017	00-17	1500	45	1455	0	1455		
		17-23	1150		1105		1105		
		23-24	1500		1455		1455		
W3 zone Injection	1st May 2017 to 31st May 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-
* 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 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.
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 400 kV Dichipalli-Ramagundam or one ckt of 765 kV Aurangabad-Solapur D/C Low Voltage at Gazuwaka (East) Bus.
ER-NER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV,
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 May 2017 to 2nd May 2017	00-05	12900	800	12100	10934	1166		
		05-08	12000		11200		266		
		08-18	12900		12100		1166		
		18-23	11600		10800		0		
		23-24	12900		12100		1166		
	3rd May 2017	00-05	12900	800	12100	10934	1166		Revised due to emergency shutdown of HVDC Mundra-Mohindergarh Pole-2
		05-07	12000		11200		266		
		07-08'	10700		9900		0	-1300	
		08-18	11500		10700		0	-1400	
		18-23	10300		9500		0	-1300	
	23-24	11500	10700	0	-1400				
	4th May 2017 to 31st May 2017	00-05	12900	800	12100	10934	1166		
		05-08	12000		11200		266		
		08-18	12900		12100		1166		
		18-23	11600		10800		0		
23-24		12900	12100		1166				
NER	1st May 2017 to 31st May 2017	00-17	1200	45	1155	225	930		
		17-23	1100		1055		830		
		23-24	1200		1155		930		
WR									
SR	1st May 2017 to 31st May 2017	00-05	7800	750	7050	7190	0		
		05-06	7800		7050	7190	0		
		06-18	7800		7050	7275	0		
		18-22	7800		7050	7190	0		
		22-24	7800		7050	7190	0		

* 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 May 2017 to 31st May 2017	00-06	4500	700	3800	248	3552		
		06-18 ¹			3800	368	3432		
		18-24			3800	248	3552		
NER	1st May 2017 to 31st May 2017	00-17	1500	45	1455	0	1455		
		17-23	1150		1105				
		23-24	1500		1455				
WR									
SR *	1st May 2017 to 31st May 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 400 kV Dichipalli-Ramagundam or one ckt of 765 kV Aurangabad-Solapur D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Low Voltage at Gazuwaka (East) Bus.

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

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	28-02-2017	Whole month	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	25th April 2017	Whole month	Revised considering commissioning of one pole of HVDC Champa - Kurukshetra, the present load generation balance and change in LTA/MTOA approved by CTU	WR-NR/ER-NR/Import of NR
			Revised considering the commissioning of 765 kV Durg - Wardha D/C, second ICT at Vemagiri, 765 kV Wardha - Nizamabad D/C, two ICTs at Nizamabad, and 400 kV Nizamabad-Dichipally D/C.	WR-SR/ ER-SR/ Import of SR
3	26th April 2017	Whole month	STOA margin revised considering change in LTA / MTOA approved by CTU	ER-NR/ Import of NR
4	02nd May 2017	03rd May 2017	Revised due to emergency shutdown of HVDC Mundra-Mohindergarh Pole-2	WR-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : May'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	7520	6502	3228	3198
2	Haryana	7151	5748	1415	1415
3	Rajasthan	8659	8970	6592	6592
4	Delhi	5409	4726	508	508
5	Uttar Pradesh	15062	13287	8612	8415
6	Uttarakhand	1884	1360	926	801
7	Himachal Pradesh	1215	977	779	698
8	Jammu & Kashmir	2115	1654	1014	997
9	Chandigarh	333	200	0	0
10	ISGS/IPPs	28	26	19320	15760
	Total NR	49375	43451	42393	38383
II	EASTERN REGION				
1	Bihar	3708	2575	198	204
2	Jharkhand	1120	850	397	348
3	Damodar Valley Corporation	2810	2329	4168	3682
4	Orissa	4191	3059	3362	2213
5	West Bengal	7960	5212	5118	3583
6	Sikkim	90	86	0	0
7	Bhutan	245	245	632	451
8	ISGS/IPPs	572	570	10772	8680
	Total ER	20666	14896	24617	19132
III	WESTERN REGION				
1	Maharashtra	19007	14949	12948	9156
2	Gujarat	15208	12559	11935	8787
3	Madhya Pradesh	7726	7128	3192	4078
4	Chattisgarh	3210	3164	2475	1600
5	Daman and Diu	321	253	0	0
6	Dadra and Nagar Haveli	767	692	0	0
7	Goa-WR	425	329	0	0
8	ISGS/IPPs	3075	3033	32300	28307
	Total WR	49739	42107	62851	51928

IV	SOUTHERN REGION				
1	Andhra Pradesh	8097	6599	6955	6305
2	Telangana	7909	6705	4041	4041
3	Karnataka	9767	8387	7182	5420
4	Tamil Nadu	15500	13578	8056	6556
5	Kerala	4219	3504	1892	712
6	Pondy	395	348	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	14216	12123
	Total SR	45976	39210	42342	35157
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	119	58	0	0
2	Assam	1100	878	240	200
3	Manipur	153	76	0	0
4	Meghalaya	319	206	270	76
5	Mizoram	91	63	8	8
6	Nagaland	107	78	16	8
7	Tripura	216	137	77	77
8	ISGS/IPPs	100	70	1661	1201
	Total NER	2205	1566	2272	1570
	Total All India	168207	141476	175107	146622