National Load Despatch Centre
Total Transfer Capability for May 2017

Issue Date: 25th April 2017 Issue Time: 1730 hrs Revision No. 2

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 31st May 2017	00-24	9050	500	8550	7951	599	2100	Revised considering commissioning of one pole of HVDC Champa - Kurukshetra,the present load generation balance and change in LTA/MTOA approved by CTU
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	2931	969		
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	950	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.
		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		STOA margin 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.
		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 ofany 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).

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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

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) KWPCL, 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 commissionned 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 willl 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) Contingnecy 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 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
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 May 2017 to 31st May 2017	00-05	12900	800	12100	10882	1218	2950	Revised considering commissioning of one pole of HVDC Champa - Kurukshetra,the present load generation balance and change in LTA/MTOA approved by CTU
		05-08	12000		11200		318	2700	
		08-18	12900		12100		1218	2950	
		18-23	11600		10800		0	3100	
		23-24	12900		12100		1218	2950	
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	950	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.
		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'			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st May 2017 to 31st May 2017	00-17	1500	45	1455	0	1455		
		17-23	1150		1105		1105		
		23-24	1500		1455		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) Contingnecy 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.

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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

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