National Load Despatch Centre
Total Transfer Capability for June 2017

Issue Date: 26th April 2017 Issue Time: 1750 hrs Revision No. 3

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 June 2017 to 30th June 2017	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st June 2017 to 30th June 2017	00-24	9050	500	8550	7951	599		
NR-ER*	1st June 2017 to 30th June 2017	00-06	2000	200	1800	193	1607		
		06-18'	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st June 2017 to 30th June 2017	00-24	4200	300	3900	2983	917		STOA margin revised considring change in LTA / MTOA approved by CTU
W3-ER	1st June 2017 to 30th June 2017	00-24	No limit is being specified.						
ER-W3	1st June 2017 to 30th June	00-24	No limit is being specified.						
WR-SR	1st June 2017 to 30th June 2017	00-05	4350	500	3850	3950	0		
		05-22	4350		3850		0		
		22-24	4350		3850		0		
SR-WR *	1st June 2017 to 30th June 2017	00-24	No limit is being Specified.						
ER-SR	1st June 2017 to 30th June 2017	00-06	3450	250	3200	3240	0		
		06-18'				3325	0		
		18-24				3240	0		
SR-ER *	1st June 2017 to 30th June 2017	00-24	No limit is being Specified.						
ER-NER	1st June 2017 to 30th June 2017	00-17	1150	45	1105	225	880		
		17-23	1030		985		760		
		23-24	1150		1105		880		
NER-ER	1st June 2017 to 30th June 2017	00-17	1240	45	1195	0	1195		
		17-23	1050		1005		1005		
		23-24	1240		1195		1195		
W3 zone Injection	1st June 2017 to 30th June	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 June 2017 to 30th June 2017	00-05	12900	800	12100	10934	1166		STOA margin revised considring change in LTA / MTOA approved by CTU
		05-08	12000		11200		266		
		08-18	12900		12100		1166		
		18-23	11600		10800		0		
		23-24	12900		12100		1166		
NER	1st June 2017 to 30th June 2017	00-17	1150	45	1105	225	880		
		17-23	1030		985		760		
		23-24	1150		1105		880		
WR									
SR	1st June 2017 to 30th June 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 June 2017 to 30th June 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st June 2017 to 30th June 2017	00-17	1240	45	1195	0	1195		
		17-23	1050		1005		1005		
		23-24	1240		1195		1195		
WR									
SR *	1st June 2017 to 30th June 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)-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	2/28/2017	Whole month	Revised due to change in LTA/MTOA	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 considring change in LTA / MTOA approved by CTU	ER-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : June'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	7405	8197	3228	4350
2	Haryana	7041	6980	1415	2163
3	Rajasthan	8526	9434	6592	7660
4	Delhi	5326	5273	508	632
5	Uttar Pradesh	14831	15505	8612	9240
6	Uttarakhand	1855	1492	926	868
7	Himachal Pradesh	1196	1144	779	864
8	Jammu & Kashmir	2083	2372	1014	1029
9	Chandigarh	328	257	0	0
10	ISGS/IPPs	27	27	19320	19189
	Total NR	48619	50680	42393	45995
II	EASTERN REGION				
1	Bihar	3798	2692	208	204
2	Jharkhand	1162	879	397	348
3	Damodar Valley Corporation	2905	2290	4228	3682
4	Orissa	4159	3016	3342	2013
5	West Bengal	8350	5270	5608	3713
6	Sikkim	89	83	0	0
7	Bhutan	245	245	632	451
8	ISGS/IPPs	568	565	11194	9063
	Total ER	21246	15010	25579	19445
III	WESTERN REGION				
1	Maharashtra	19011	14933	12314	9849
2	Gujarat	14865	12942	11690	8510
3	Madhya Pradesh	7064	6558	3089	2307
4	Chattisgarh	3033	3058	1915	2461
5	Daman and Diu	298	289	0	0
6	Dadra and Nagar Haveli	719	738	0	0
7	Goa-WR	469	323	0	0
8	ISGS/IPPs	2889	3044	32224	29087
	Total WR	48348	41887	61231	52214

IV	SOUTHERN REGION				
1	Andhra Pradesh	7748	7698	6636	6146
2	Telangana	6298	5734	3849	3578
3	Karnataka	8598	8446	6342	4886
4	Tamil Nadu	15000	12600	7580	6380
5	Kerala	3570	2150	1414	100
6	Pondy	395	395	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs			10824	10966
	Total SR	41306	36757	36645	32056
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	138	90	0	0
2	Assam	1199	1028	240	200
3	Manipur	152	75	0	0
4	Meghalaya	277	195	193	66
5	Mizoram	95	69	8	8
6	Nagaland	117	80	22	12
7	Tripura	255	166	78	77
8	ISGS/IPPs	100	60	1915	1538
	Total NER	2333	1763	2456	1901
	Total All India	162096	146343	168937	152063