

National Load Despatch Centre
Total Transfer Capability for June 2017

Issue Date: 11th June 2017

Issue Time: 1500 hrs

Revision No. 10

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	00-24	8300	500	7800	7951	0		
	2nd June 2017	00-12	9050	500	8550	7951	1945		
		12-24	7550	500	7050	7951	0		
	3rd June 2017 to 6th June 2017	00-24	9050	500	8550	7951	599		
	7th June 2017	00-11:30	9050	500	8550	7951	599		
		11:30-24	8050	500	7550	7951	0		
	8th June 2017	00-08	9050	500	8550	7951	599		
		24-Aug	8050	500	7550	7951	0		
	9th 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		
W3-ER	1st June 2017 to 30th June 2017	00-24	No limit is being specified.						
ER-W3	1st June 2017 to 30th June 2017	00-24	No limit is being specified.						
WR-SR	1st June 2017 to 30th June 2017	00-05	4350	500	3850	3938	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.						

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ER-SR	1st June 2017 to 11th June 2017	00-06	3450	250	3200	3211	0					
		06-18'				3296	0					
		18-24				3211	0					
	12th June 2017	00-06	3450	250	3200	3211	0	-150	Revised due to day-time shutdown of 765 kV Angul-Srikakulam circuit I			
		06-08'				3296	0					
		08-18				3296	0					
	13th June 2017	18-24	3300	250	3050	3211	0	-150	Revised due to day-time shutdown of 765 kV Angul-Srikakulam circuit II			
		00-06	3450	250	3200	3211	0					
		06-08'				3296	0					
	08-18	3296				0						
	14th June 2017 to 30th June 2017	18-24	3300	250	3050	3211	0					
		00-06				3450	250			3200	3211	0
		06-18'									3296	0
	18-24	3211	0									

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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 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).

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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-Pusaali
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	---

SR	1st June 2017 to 11th June 2017	00-05	7800	750	7050	7149	0		
		05-06	7800		7050	7149	0		
		06-18	7800		7050	7234	0		
		18-22	7800		7050	7149	0		
		22-24	7800		7050	7149	0		
	12th June 2017	00-05	7800	750	7050	7149	0	-150	Revised due to day-time shutdown of 765 kV Angul- Srikakulam circuit I
		05-06	7800		7050	7149	0		
		06-08	7800		7050	7234	0		
		08-18	7650		6900	7234	0		
		18-22	7650		6900	7149	0		
	13th June 2017	00-05	7800	750	7050	7149	0	-150	Revised due to day-time shutdown of 765 kV Angul- Srikakulam circuit II
		05-06	7800		7050	7149	0		
		06-08	7800		7050	7234	0		
		08-18	7650		6900	7234	0		
		18-22	7650		6900	7149	0		
	14th June 2017 to 30th June 2017	00-05	7800	750	7050	7149	0		
		05-06	7800		7050	7149	0		
		06-18	7800		7050	7234	0		
		18-22	7800		7050	7149	0		
		22-24	7800		7050	7149	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			3800	248	3552		
NER	1st June 2017 to 30th June 2017	00-17	1240	45	1195	0	1195		
		17-23	1050		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) 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)-Nunna S/C) Low Voltage at Gazuwaka (East) Bus.

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Total Transfer Capability for June 2017**

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 considering change in LTA / MTOA approved by CTU	ER-NR/Import of NR
4	05th May 2017	Whole month	STOA margin revised considering the latest LTA/MTOA granted by CTU	WR-SR/ ER-SR/ Import of SR
5	09th May 2017	Whole month	Revised considering the latest LTA/MTOA granted by CTU	WR-SR/ Import of SR
6	16th May 2017	Whole month	Revised considering present Inter-regional flow pattern	Import of NR
7	30th May 2017	1-Jun-17	Revised due to shutdown of Rihand-Dadri pole-2	WR-NR/ Import of NR
8	1st June 2017	2-Jun-17	Revised due to Shutdown of HVDC Champa-Kurukshetra pole 1	WR-NR/ Import of NR
9	7th June 2017	7th June 2017 to 8th June 2017	Revised due to day-time Shutdown of 765 kV Meerut Greater Noida	WR-NR/ Import of NR
10	11th June 2017	12th June 2017 to 13th June 2017	Revised due to day-time shutdown of 765 kV Angul-Srikakulam circuit I and II	ER-SR/ Import of SR

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