

**National Load Despatch Centre**  
**Total Transfer Capability for April 2018**

Issue Date: 22nd January 2018

Issue Time: 1300 hrs

Revision No. 1

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 April 2018 to 30th April 2018	00-06	2500	500	2000	55	1945		
		06-18					1935		
		18-24					1945		
WR-NR*	1st April 2018 to 30th April 2018	00-24	10050	500	9550	9280	270		
NR-ER*	1st April 2018 to 30th April 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st April 2018 to 30th April 2018	00-24	4500	300	4200	3039	1161		
W3-ER	1st April 2018 to 30th April 2018	00-24	No limit is being specified.						
ER-W3	1st April 2018 to 30th April 2018	00-24	No limit is being specified.						
WR-SR	1st April 2018 to 30th April 2018	00-05	5700	500	5200	4160	1040		Revised STOA margin due to allocation of 125 MW and 200 MW power from NTPC WR to Telangana and Karnataka respectively
		05-22	5700		5200		1040		
		22-24	5700		5200		1040		
SR-WR *	1st April 2018 to 30th April 2018	00-24	No limit is being Specified.						
ER-SR	1st April 2018 to 30th April 2018	00-06	3800	250	3550	3339	211		Revised STOA margin due to allocation of 50 MW power from NTPC ER to Telangana
		06-18				3424	126		
		18-24				3339	211		
SR-ER *	1st April 2018 to 30th April 2018	00-24	No limit is being Specified.						
ER-NER	1st April 2018 to 30th April 2018	00-17	1370	45	1325	225	1100		
		17-23	1310		1265		1040		
		23-24	1370		1325		1100		
NER-ER	1st April 2018 to 30th April 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375		1375		
		23-24	1460		1415		1415		
W3 zone Injection	1st April 2018 to 30th April 2018	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
<b>Note: TTC/ATC of S1-(S2&amp;S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD &amp; DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.</b>									

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<b>Corridor</b>	<b>Date</b>	<b>Time Period (hrs)</b>	<b>Total Transfer Capability (TTC)</b>	<b>Reliability Margin</b>	<b>Available Transfer Capability (ATC)</b>	<b>Long Term Access (LTA)/ Medium Term Open Access (MTOA) #</b>	<b>Margin Available for Short Term Open Access (STOA)</b>	<b>Changes in TTC w.r.t. Last Revision</b>	<b>Comments</b>
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\* 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) 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.

### 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
<b>ER</b>									
<b>NR</b>	1st April 2018 to 30th April 2018	00-05	14350	800	13550	12319	1231		
		05-08	14350		13550		1231		
		08-18	14350		13550		1231		
		18-23	13050		12250		0		
		23-24	14350		13550		1231		
<b>NER</b>	1st April 2018 to 30th April 2018	00-17	1370	45	1325	225	1100		
		17-23	1310		1265		1040		
		23-24	1370		1325		1100		
<b>WR</b>									
<b>SR</b>	1st April 2018 to 30th April 2018	00-05	9500	750	8750	7499	1251		Revised STOA margin due to (i) allocation of 125 MW and 200 MW power from NTPC WR to Telangana & Karnataka respectively and (ii) 50 MW of power from NTPC ER to Telangana
		05-06	9500		8750	7499	1251		
		06-18	9500		8750	7584	1166		
		18-22	9500		8750	7499	1251		
		22-24	9500		8750	7499	1251		

\* 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 April 2018 to 30th April 2018	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24			3800	248	3552		
NER	1st April 2018 to 30th April 2018	00-17	1460	45	1415	0	1415		
		17-23	1420		1375				
		23-24	1460		1415				
WR									
SR *	1st April 2018 to 30th April 2018	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 (Corridor wise)

		Applicable Revisions
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	All
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.	All
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	All
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c	All
WR-SR and ER-SR	a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service) b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service)	All
	Low Voltage at Gazuwaka (East) Bus.	All
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)	All
	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line	All
W3 zone Injection	---	All

### Limiting Constraints (Simultaneous)

		Applicable Revisions
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 220 kV Samaguri - Sonabil line
SR	Import	a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service) b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service)
		Low Voltage at Gazuwaka (East) Bus.

**National Load Despatch Centre  
Total Transfer Capability for April 2018**

<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision</b>	<b>Corridor Affected</b>
1	22nd Jan 2018	Whole month	Revised STOA margin due to (i) allocation of 125 MW and 200 MW power from NTPC WR to Telangana & Karnataka respectively and (ii) 50 MW of power from NTPC ER to Telangana	WR-SR/ER-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : April'18	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	<b>NORTHERN REGION</b>				
1	Punjab	7292	6644	3354	3234
2	Haryana	6516	6006	1283	1283
3	Rajasthan	8713	8271	4971	4941
4	Delhi	5224	4967	664	664
5	Uttar Pradesh	14753	13787	8154	8178
6	Uttarakhand	1679	1271	691	579
7	Himachal Pradesh	1471	1100	602	404
8	Jammu & Kashmir	2555	2050	1148	839
9	Chandigarh	232	168	0	0
10	ISGS/IPPs	25	25	19298	14451
	<b>Total NR</b>	<b>48459</b>	<b>44289</b>	<b>40165</b>	<b>34573</b>
II	<b>EASTERN REGION</b>				
1	Bihar	3982	2561	290	181
2	Jharkhand	1198	860	374	210
3	Damodar Valley Corporation	2986	2649	4717	3994
4	Orissa	3986	3116	2975	2252
5	West Bengal	7678	5578	5372	4249
6	Sikkim	86	50	0	0
7	Bhutan	208	218	424	290
8	ISGS/IPPs	270	261	10897	9516
	<b>Total ER</b>	<b>20394</b>	<b>15291</b>	<b>25050</b>	<b>20692</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	19680	18252	12471	12257
2	Gujarat	14041	14278	9155	9155
3	Madhya Pradesh	8174	7947	3316	3446
4	Chattisgarh	4013	3793	2305	2305
5	Daman and Diu	309	304	0	0
6	Dadra and Nagar Haveli	733	745	0	0
7	Goa-WR	491	417	0	0
8	ISGS/IPPs	3822	3757	38254	37653
	<b>Total WR</b>	<b>51263</b>	<b>49493</b>	<b>65501</b>	<b>64816</b>

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	8398	6262	5740	3534
2	Telangana	9459	7003	4294	3914
3	Karnataka	10363	7363	6949	5564
4	Tamil Nadu	15027	13021	7100	5500
5	Kerala	4029	2694	1589	245
6	Pondy	366	262	0	0
7	Goa-SR	82	84	0	0
8	ISGS/IPPs	0	0	17631	12306
	Total SR	47726	36689	43303	31062
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	126	60	0	0
2	Assam	1123	843	224	112
3	Manipur	156	87	0	0
4	Meghalaya	270	192	135	58
5	Mizoram	95	66	8	8
6	Nagaland	103	78	12	8
7	Tripura	182	185	72	70
8	ISGS/IPPs	157	160	1829	1331
	Total NER	2213	1669	2280	1587
	Total All India	170430	147825	176777	153060