# National Load Despatch Centre Total Transfer Capability for April 2018

Issue Date: 27th March 2018 Issue Time: 1500 hrs Revision No. 5

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 06-18 18-24	2500	500	2000	55 65 55	1945 1935 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 06-18 18-24	2000 2000 2000	200	1800 1800 1800	193 303 193	1607 1497 1607			
ER-NR*	1st April 2018 to 30th April 2018	00-24	4500	300	4200	3239	961		Revised STOA margin due to 200 MW LTA from Bokaro TPS-A of DVC to PSPCL	
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.						
	1 . 4 . 11 2010	00-05	5150		4650		435			
WR-SR	1st April 2018 to 30th April	05-22	5150	500	4650	4215	435			
	2018	22-24	5150		4650		435			
SR-WR*	1st April 2018 to 30th April 2018	00-24	No limit is being Specified.							
		00-06				2762	1338			
ER-SR	1st April 2018 to 30th April	06-18'	4350	250	4100	2847	1253			
	2018	18-24				2762	1338			
SR-ER *	1st April 2018 to 30th April 2018	00-24	No limit is being Specified.							
	1st April 2018	00-17	1370		1325		1100			
ER-NER	to 30th April 2018	17-23 23-24	1310 1370	45	1265 1325	225	1040 1100			
NER-ER	1st April 2018 to 30th April 2018	00-17 17-23 23-24	1460 1420 1460	45	1415 1375 1415	0	1415 1375 1415			

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W3 zone Injection	1st April 2018 to 30th April 2018	00-24	No limit is be	To 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.

- 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 will be revised to normal values if the shutdown is not being availed in real time.

<sup>\*</sup> 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).

#### **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									
		00-05	14350		13550		1031		Davie d STOAi daa
	1st April 2018	05-08	14350		13550		1031		Revised STOA margin due to 200 MW LTA from
NR	to 30th April	08-18	14350	800	13550	12519	1031		Bokaro TPS-A of DVC to
	2018	18-23	13050		12250		0		PSPCL
		23-24	14350		13550		1031		FSFCL
	1st April 2018	00-17	1370		1325		1100		
NER	to 30th April	17-23	1310	45	1265	225	1040		
	2018	23-24	1370		1325		1100		
WR									
		00-05	9500		8750	6977	1773		
	1st April 2018	05-06	9500		8750	6977	1773		
SR	to 30th April	06-18	9500	750	8750	7062	1688		
	2018	18-22	9500		8750	6977	1773		
		22-24	9500		8750	6977	1773		

<sup>\*</sup> 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	00-06	4500	700	3800 3800	248 368	3552 3432		
NER	2018 1st April 2018 to 30th April 2018	18-24 00-17 17-23 23-24	4500 1460 1420 1460	45	3800 1415 1375 1415	0	3552 1415 1375 1415		
WR									
SR*	1st April 2018 to 30th April 2018	00-24		No limit is being Specified.					

<sup>\*</sup> 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	Rev-0 to 5
WR-NR	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 5
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c	Rev-0 to 5
	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)	Rev-0 to 3
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-4 to 5
ER-NER	<ul><li>a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa</li><li>b. High loading of 220 kV Balipara-Sonabil line(200 MW)</li></ul>	Rev-0 to 5
	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line	Rev-0 to 5
W3 zone Injection		Rev-0 to 5

## **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) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.  2. High Loading of 400kV Singrauli-Anpara S/C.	Rev-0 to 5
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	- Rev-0 to 5
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)	Rev-0 to 5
•	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line	Rev-0 to 5
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)	Rev-0 to 3
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-4 to 5

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
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
2	3rd Feb 2018	Whole month	Revised STOA margins due to change in Talcher Stg-II DC	ER- SR/Import of SR
3	26th Feb 2018	Whole month	Revised STOA margin due to (a) 50 MW allocation to Karnataka from NTPC WR plants (b) 5 MW allocation to Telangana from NTPC WR plants	WR- SR/Import of SR
4	23rd March 2018	Whole month	1. Revised due to commissioning/ reconfugration of following lines:  (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3  (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2  (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)-ckt 1 & 2 moved to 400 kV Vemagiri (PG)  2. With the commissioning/ reconfugration of above lines, TTC/ATC for Import of SR remains unchanged however the relative sensitivity of ER-SR and WR-SR to net import of SR has changed. The limiting constraint which was earlier (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C and (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C has also shifted to n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG).	ER-SR / WR- SR
			Revised STOA margin on basis of inter-regional LTA uilisation/allocation	ER- SR/Import of SR
5	27th Mar 2018	Whole month	Revised STOA margin due to 200 MW LTA from Bokaro TPS-A of DVC to PSPCL	ER- NR/Import of NR

ASSUM	MPTIONS 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)
ı	NORTHERN REGION				
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
	Total NR	48459	44289	40165	34573
П	EASTERN REGION				
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
	Total ER	20394	15291	25050	20692
III	WESTERN REGION				
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
	Total WR	51263	49493	65501	64816

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