

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

Issue Date: 19th April 2018

Issue Time: 1300 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 April 2018 to 30th April 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st April 2018	00-24	8550	500	8050	9280	0		
	2nd April 2018 to 07th April 2018	00-24	8550	500	8050	9179	0		
		08th April 2018	00-630'	8550	500	8050	9179	0	
	630-24		7300	500	6800	9179	0		
	9th April 2018	00-07'	8550	500	8050	9179	0		
		07-24'	7300	500	6800	9179	0		
	10th April 2018 to 12th April 2018	00-24	8550	500	8050	9179	0		
	13th April 2018	00-24	7300	500	6800	9179	0		
14th April 2018 to 30th April 2018	00-24	8550	500	8050	9179	0			
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	3239	961		
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 15th April 2018	00-05	5150	500	4650	4215	435		
		05-22	5150		4650		435		
		22-24	5150		4650		435		
	16th April 2018	00-930	5150	500	4650	4215	435		
		930-18	4950		4450		235		
		18-24	5150		4650		435		
	17th April 2018 to 30th April 2018	00-05	5150	500	4650	4215	435		
		05-22	5150		4650		435		
		22-24	5150		4650		435		
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	4350	250	4100	2762	1338		
		06-18'				2847	1253		
		18-24				2762	1338		
SR-ER *	1st April 2018 to 30th April 2018	00-24	No limit is being Specified.						

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ER-NER	1st April 2018 to 19th April 2018	00-17	1370	45	1325	225	1100		Revised due to Continuous shutdown of 400/220kV ICT-1 at Misa	
		17-23	1310		1265		1040			
		23-24	1370		1325		1100			
	20th April 2018	00-08'	1370	45	1325	225	1100			
		08-17'	1070		1025		800	-300		
		17-23	980		935		710	-330		
	21st April 2018 to 30th April 2018	23-24	1070	45	1025	225	800	-300		
		00-17	1070		1025		800	-300		
		17-23	980		935		710	-330		
	NER-ER	1st April 2018 to 19th April 2018	00-17	1460	45	1415	0	1415		
			17-23	1420		1375		1375		
			23-24	1460		1415		1415		
20th April 2018		00-08'	1460	45	1415	0	1415			
		08-17'	1230		1185		1185	-230		
		17-23	1280		1235		1235	-140		
21st April 2018 to 30th April 2018		23-24	1230	45	1185	0	1185	-230		
		00-17	1230		1185		1185	-230		
		17-23	1280		1235		1235	-140		
		23-24	1230		1185		1185	-230		
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)						

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).

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 :

- The TTC value will be revised to normal values after restoration of shutdown.
- The TTC value will be revised to normal values if the shutdown is not being availed in real time.

SR	1st April 2018 to 15th April 2018	00-05	9500	750	8750	6977	1773	
		05-06	9500		8750	6977	1773	
		06-18	9500		8750	7062	1688	
		18-22	9500		8750	6977	1773	
		22-24	9500		8750	6977	1773	
	16th April 2018	00-05	9500	750	8750	6977	1773	
		05-06	9500		8750	6977	1773	
		06-930	9500		8750	7062	1688	
		930-18	9300		8550	7062	1488	
		18-22	9500		8750	6977	1773	
		22-24	9500		8750	6977	1773	
	17th April 2018 to 30th April 2018	00-05	9500	750	8750	6977	1773	
		05-06	9500		8750	6977	1773	
		06-18	9500		8750	7062	1688	
		18-22	9500		8750	6977	1773	
		22-24	9500		8750	6977	1773	

* 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 19th April 2018	00-17	1460	45	1415	0	1415		Revised due to Continuous shutdown of 400/220kV ICT-1 at Misa		
		17-23	1420		1375		1375				
		23-24	1460		1415		1415				
	20th April 2018	00-08'	1460	45	1415	0	1415	-230			
		08-17'	1230		1185		1185	-140			
		17-23	1280		1235		1235	-230			
	21st April 2018 to 30th April 2018	23-24	1230	45	1185	0	1185	-230			
		00-17	1230		1185		1185	-140			
		17-23	1280		1235		1235	-230			
	WR	1st April 2018									
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)

Corridor	Constraint	Applicable Revisions
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 10
WR-NR	1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 10
	2. (n-1) Contingency of one pole of HVDC Champa Kurukshetra will lead to more than 2750MW on remaining ckt of 765kV Gwalior-Agra.	Rev-7
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 10
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c	Rev-0 to 10
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)	Rev-0 to 3
	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.	Rev-0 to 10
	(n-1) contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-4 to 10
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)	Rev-0 to 10
NER-ER	(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 10
W3 zone Injection	---	

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	2. (n-1) Contingency of one pole of HVDC Champa Kurukshetra will lead to more than 2750MW on remaining ckt of 765kV Gwalior-Agra.
		(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.
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT

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Total Transfer Capability for April 2018

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/ reconfiguration 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/ reconfiguration 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 utilisation/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
6	01st April 2018	02nd April 2018 to 30th April 2018	(i) Revised TTC due to restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra, (ii) Revised STOA margins due to change in allocation from WR-ISGS to J&K, to WR-ISGS to Gujarat	WR-NR / Import of NR
7	07th April 2018	8th April 2018	Revised due to shutdown of 765kV Agra-Gwalior-1	WR-NR / Import of NR
		09th April 2018	Revised due to shutdown of HVDC Champa-Kurukshetra Pole-I	WR-NR / Import of NR
8	12th April 2018	13th April 2018	Revised due to forced outage of following lines: (i) 765 kV Agra-Jhatikara (ii) 765 kV Agra-Aligarh (iii) 400 kV Agra (UP)-Fatehabad -II (iv) 400 kV Agra(UP)-Agra (PG)-I (v) 400 kV Agra-Sikar-II and frequent tripping of Champa Kurukshetra pole	WR-NR / Import of NR
9	14th April 2018	16th April 2018	Revised due to shutdown of 765/400kV ICT-1 at Nizamabad	WR-SR / Import of SR
10	19th April 2018	20th April 2018 to 30th April 2018	Revised due to Continuous shutdown of 400/220kV ICT-1 at Misa	ER-NER/NER-ER/Import of NER/Export of NER

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	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	1st April 2018	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
II	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