National Load Despatch Centre Total Transfer Capability for April 2019

Issue Date: 28th December 2018

Issue Time: 1800 hrs

Revision No. 0

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
	1st April 2019	00-06				195	1805		
NR-WR*	to 30th April	06-18	2500	500	2000	250	1750		
	2019	18-24				195	1805		
	1st April 2019		12250		11750	9275	2495		
WR-NR*	to 30th April 2019	00-24	11300**	500	10800**	8315**	2495**		
	1st April 2019	00-06	2000		1800	193	1607		
NR-ER*	to 30th April	06-18	2000	200	1800	303	1497		
	2019	18-24	2000		1800	193	1607		
ER-NR*	1st April 2019 to 30th April 2019	00-24	5250	300	4950	3892	1058		
W3-ER	1st April 2019 to 30th April 2019	00-24	No limit is being specified.						
ER-W3	1st April 2019 to 30th April 2019	00-24	No limit is being specified.						
		00-05	5200		4700		165		
	1st April 2019		5200	500		4525			
WR-SR	to 30th April 2019	05-22	5200	500	4700	4535	165		
	1	22-24	5200		4700		165		
SR-WR *	1st April 2019 to 30th April 2019	00-24	No limit is being Specified.						
		00-06				2762	1788		
ER-SR	1st April 2019 to 30th April	06-18	4800	250	4550	2847	1703		
	2019	18-24		230	+550				
SR-ER *	1st April 2019 to 30th April 2019	00-24		2762 1788 No limit is being Specified.					

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Injection 2019	w.r.t. Comments	Available for Short Term Open Access	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Available Transfer Capability (ATC)	Reliability Margin	Total Transfer Capability (TTC)	Time Period (hrs)	Date	Corridor
W3 zone Injection 1st April 2019 00-24 1420 1375 1150 W3 zone Injection 1st April 2019 23-24 00-17 2240 240 2195 2195 2195 W3 zone Injection 1st April 2019 2019 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system, W3 zone export would be revised according to the system according to the system, W3 zone export would be revised according to the system accordin		1150		1375		1420	00-17	1st April 2019	
NER-ER 1st April 2019 to 30th April 2019 00-17 2240 23-24 2195 23-24 2195 2325 2195 2325 W3 zone Injection 1st April 2019 to 30th April 2019 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised according to the system). W3 zone would be revised according to the system.		1130	225	1355	45	1400	17-23	to 30th April	ER-NER
NER-ER to 30th April 2019 17-23 2370 45 2325 0 2325 W3 zone Injection 1st April 2019 to 30th April 2019 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised according to the system).		1150		1375		1420	23-24	2019	
W3 zone Injection 1st April 2019 2019 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised account of a system).		2195		2195		2240	00-17	1st April 2019	
W3 zone Injection 1st April 2019 to 30th April 2019 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised account)		2325	0	2325	45	2370	17-23	to 30th April	NER-ER
W3 zone Injectionto 30th April 201900-24No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised account of the system)		2195		2195		2240	23-24	2019	
Note: TTC/ATC of \$1 (\$29.52) consider Instant of \$2/Versle). Instant of Durich and Instant of DD & DNH is unloaded on NI DC makeits up den I	W3 zone 1st April 2019 Injection 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 I 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 (E	•			•		ŕ •	ATC.	ction in Monthly	Regional Sec
First Come First Serve).								First Serve).	First Come F

**Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

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.

Simultaneous Import Capability

Corrido r	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									
			17500		16700		3533		
		00-18	16550**		15750**		3533**		
	1st April 2019		15700		14900	13167	1733		
NR	to 30th April 2019	18-23	14750**	800	13950**	12217**	1733**		
	2019		14750***		13930***	1221744	1/33***		
			17500		16700		3533		
		23-24	1.6550.000		1.5750.000		0.500 state		
			16550**		15750**		3533**		
	1st April 2019	00-17	1420		1375	22.5	1150		
NER	to 30th April	17-23	1400	45	1355	225	1130		
	2019	23-24	1420		1375		1150		
WR									
		00-06	10000		9250	7297	1953		
SR	1st April 2019 to 30th April 2019	06-18	10000	750	9250	7382	1868		
		18-24	10000		9250	7297	1953		

* 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).

**Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

* 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

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	
1st April 2019	00-06	4500	4500		3800	388	3412		
to 30th April	06-18		700	3800	553	3247			
2019	18-24	4500		3800	388	3412			
1st April 2019	00-17	2240	45	2195		2195			
to 30th April	17-23	2370		2325	0	2325			
2019	23-24	2240				2195		2195	
1st April 2019									
to 30th April	00-24	No limit is being Specified.							
2019									
	1st April 2019 to 30th April 2019 1st April 2019 to 30th April 2019 1st April 2019 to 30th April	Date Period (hrs) Date Period Ist April 2019 00-06 to 30th April 06-18 2019 18-24 1st April 2019 00-17 to 30th April 17-23 2019 23-24 1st April 2019 23-24 1st April 2019 00-17 1st April 2019 00-18 1st April 2019 00-24	DateTime Period (hrs)Transfer Capability (TTC)1st April 201900-064500to 30th April06-1820191st April 201918-2445001st April 201900-172240to 30th April17-232370201923-2422401st April 201923-2422401st April 201900-245001st April 201900-24500	DateTime Period (hrs)Transfer Capability (TTC)Reliability Margin1st April 201900-0645007001st April 201906-18700700201918-2445007001st April 201900-17224045001st April 201900-17224045001st April 201923-2422404500201923-24224045001st April 201900-245005001st April 201900-245005001st April 201900-245005001st April 201900-24500500	DateTime Period (hrs)Transfer Capability (TTC)Reliability MarginTransfer Capability (ATC)1st April 201900-0645007003800to 30th April06-187003800201918-24450038001st April 201900-17224038001st April 201900-1722402195to 30th April17-23237045201923-2422402195201923-24224021951st April 201900-241000000000000000000000000000000000000	DateTime Period (hrs)Transfer Capability (TTC)Reliability MarginAvailable Transfer Capability (ATC)Access (LTA)/ Medium Term Open Access (MTOA)1st April 2019 to 30th April 201900-06 06-184500 06-1870038003881st April 2019 to 30th April 201900-17 12-232240219538003881st April 2019 to 30th April 201917-23 23-242370 2240450219501st April 2019 201923-2422402195001st April 2019 to 30th April00-24Image: Company operation op	DateTime Period (hrs)Transfer Capability (TTC)Reliability MarginAvailable Transfer Capability (ATC)Access (LTA)/ Medium Term Open Access (MTOA)Available for Short Term Open Access (STOA)1st April 2019 to 30th April 201900-06 18-244500700380038834121st April 2019 to 30th April 201900-1722402195380038834121st April 2019 to 30th April 201900-1722404500219521951st April 2019 to 30th April 201917-23237045232502325201923-24224010102195219521951st April 2019 to 30th April00-2410101010101st April 2019 to 30th April00-241010101010	DateTime Period (hrs)Total Transfer Capability (TTC)Reliability MarginAvailable Transfer (ATC)Access (LTA)/ Medium Term (ATC)Available for Short Term Open Access (MTOA)in TTC w.r.t. Last Revision1st April 2019 to 30th April 201900-06 18-244500 201970038003883412	

* 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
	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0
WR-NR	RVO operation of HVDC Champa Kurukshetra Poles Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-0
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0
ER-NR	 N-1 contingencies of 400 kv Mejia-Maithon A S/c N-1 contingencies of 400 kv Kahalgaon-Banka S/c N-1 contingencies of 400kV MPL- Maithon S/C 	Rev-0
WR-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0
and ER-	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0
SR	Low Voltage at Gazuwaka (East) Bus.	Rev-0
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
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0
W3 zone Injection		Rev-0

Limiting Constraints (Simultaneous)

			Applicable Revisions
		1. N-1 contingencies of 400 kV Mejia-Maithon A S/c	
		2. N-1 contingencies of 400 kV Kahalgaon-Banka S/c	Rev-0
	Import	3. N-1 contingencies of 400kV MPL- Maithon S/c	
NR	mport	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0
INK		RVO operation of HVDC Champa Kurukshetra Poles	Rev-0
		Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Kev-0
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0
	Export	(n-1) contingency of 400 kV Saranath-Pusauli	Rev o
	T	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa	Rev-0
NER	Import	b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Kev-0
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0
		n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0
SR	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second	Rev-0
		ICT	100-0
		Low Voltage at Gazuwaka (East) Bus.	Rev-0

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Revision	Date of	Period of	Reason for Revision/Comment	Corridor
No	Revision	Revision	Reason for Revision/Comment	Affected

ASSUN	IPTIONS IN BASECASE				
				Month : April'19	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
Ι	NORTHERN REGION				
1	Punjab	7290	6249	3543	3588
2	Haryana	7873	7139	2583	2583
3	Rajasthan	10474	9250	7473	7473
4	Delhi	5387	4170	612	612
5	Uttar Pradesh	14130	11663	6246	6367
6	Uttarakhand	1784	1304	816	544
7	Himachal Pradesh	1459	970	173	131
8	Jammu & Kashmir	2387	1613	771	761
9	Chandigarh	243	144	0	0
10	ISGS/IPPs	30	29	18558	10652
	Total NR	51057	42529	40775	32711
Ш	EASTERN REGION				
1	Bihar	4534	4534 3290		285
2	Jharkhand	994	702	354	229
3	Damodar Valley Corporation	3022	2497	5147	3743
4	Orissa	4128	3314	2371	2471
5	West Bengal	6921	4534	5279	3958
6	Sikkim	107	94	0	0
7	Bhutan	200	198	414	336
8	ISGS/IPPs	626	627	11872	8472
	Total ER	20531	15257	25789	19494
	WESTERN REGION				
1	Maharashtra	20141	17026	16345	14514
2	Gujarat	15838	13877	10343	10095
2	Madhya Pradesh	10831	7721	5491	4520
4	Chattisgarh	4459	3483	2797	2985
5	Daman and Diu	349	297	0	0
6	Dadra and Nagar Haveli	886	722	0	0
7	Goa-WR	625	439	0	0
8	ISGS/IPPs	4956	439	40029	30899
0	Total WR	58085	47909	75062	63015

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	8469	7401	6235	4544
2	Telangana	9553	8303	4964	4464
3	Karnataka	9353	6123	7638	5619
4	Tamil Nadu	15346	13709	8538	7138
5	Kerala	4133	2777	1574	716
6	Pondy	327	321	0	0
7	Goa-SR	73	72	0	0
8	ISGS/IPPs	0	0	13098	11619
	Total SR	47254	38706	42049	34101
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	66	54	0	0
2	Assam	879	806	195	142
3	Manipur	119	87	0	0
4	Meghalaya	284	213	162	96
5	Mizoram	99	59	64	8
6	Nagaland	81	74	12	6
7	Tripura	209	149	74	74
8	ISGS/IPPs	153	83	1326	1151
	Total NER	1890	1525	1833	1477
	Total All India	179317	146360	185946	151169