

**National Load Despatch Centre  
Total Transfer Capability for April 2019**

Issue Date: 4th January 2019

Issue Time: 2200 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 2019 to 30th April 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st April 2019 to 30th April 2019	00-24	12250 11300**	500	11750 10800**	9383 8433**	2367 2367**		Revised STOA margins due to operationalization of 108 MW MTOA from SKS Power Gen Ltd to Noida Power Company
NR-ER*	1st April 2019 to 30th April 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		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.						
WR-SR	1st April 2019 to 30th April 2019	00-05	5550	500	5050	4535	515	350	Revised TTC due to: (i) Change in load generation balance (ii) Commissioning of circuit 3 & 4 of 765 kV Angul Jharsuguda (iii) Prevailing pattern of load in downstream of 400/220 kV Maradam ICTs
		05-22	5550		5050		515	350	
		22-24	5550		5050		515	350	
SR-WR *	1st April 2019 to 30th April 2019	00-24	No limit is being Specified.						
ER-SR	1st April 2019 to 30th April 2019	00-06	4950	250	4700	2762	1938	150	Revised TTC due to: (i) Change in load generation balance (ii) Commissioning of circuit 3 & 4 of 765 kV Angul Jharsuguda (iii) Prevailing pattern of load in downstream of 400/220 kV Maradam ICTs
		06-18				2847	1853		
		18-24				2762	1938		
SR-ER *	1st April 2019 to 30th April 2019	00-24	No limit is being Specified.						

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ER-NER	1st April 2019 to 30th April 2019	00-17	1420	45	1375	225	1150		
		17-23	1400		1355		1130		
		23-24	1420		1375		1150		
NER-ER	1st April 2019 to 30th April 2019	00-17	2240	45	2195	0	2195		
		17-23	2370		2325		2325		
		23-24	2240		2195		2195		

<b>W3 zone Injection</b>	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 accordingly)						
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**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).

\*\*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) KWPC, 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 2019 to 30th April 2019	00-18	17500	800	16700	13275 12325**	3425		Revised STOA margins due to operationalization of 108 MW MTOA from SKS Power Gen Ltd to Noida Power Company
			16550**		15750**		3425**		
		18-23	15700		14900		1625		
			14750**		13950**		1625**		
		23-24	17500		16700		3425		
			16550**		15750**		3425**		
<b>NER</b>	1st April 2019 to 30th April 2019	00-17	1420	45	1375	225	1150		
		17-23	1400		1355		1130		
		23-24	1420		1375		1150		
<b>WR</b>									
<b>SR</b>	1st April 2019 to 30th April 2019	00-06	10500	750	9750	7297	2453	500	Revised TTC due to: (i) Change in load generation balance (ii) Commissioning of circuit 3 & 4 of 765 kV Angul Jharsuguda (iii) Prevailing pattern of load in downstream of 400/220 kV Maradam ICTs
		06-18	10500		9750	7382	2368	500	
		18-24	10500		9750	7297	2453	500	

\* 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

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 2019 to 30th April 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24			3800	388	3412		
NER	1st April 2019 to 30th April 2019	00-17	2240	45	2195	0	2195		
		17-23	2370		2325		2325		
		23-24	2240		2195		2195		
WR									
SR *	1st April 2019 to 30th April 2019	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
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 1
<b>WR-NR</b>	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
	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 to 1
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 1
<b>ER-NR</b>	1. N-1 contingencies of 400 kv Mejia-Maithon A S/c 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev-0 to 1
<b>WR-SR and ER-SR</b>	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 1
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 1
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 1
<b>ER-NER</b>	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 1
<b>NER-ER</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 1
<b>W3 zone Injection</b>	---	Rev-0 to 1

### Limiting Constraints (Simultaneous)

		Applicable Revisions	
<b>NR</b>	<b>Import</b>	1. N-1 contingencies of 400 kV Mejia-Maithon A S/c 2. N-1 contingencies of 400 kV Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/c	Rev-0 to 1
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
		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 to 1
	<b>Export</b>	(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 1
<b>NER</b>	<b>Import</b>	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 1
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 1
<b>SR</b>	<b>Import</b>	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 1
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 1
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 1

**National Load Despatch Centre  
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<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision/Comment</b>	<b>Corridor Affected</b>
1	4th Jan 2019	Whole Month	Revised STOA margins due to: (i) Additional 20 MW LTA to Delhi from Ostro Kutch Wind Power Ltd (OKWPL) (ii) Operationalization of 108 MW MTOA from SKS Power Gen Ltd to Noida Power Company	WR-NR/Import of NR
			Revised TTC due to: (i) Change in load generation balance (ii) Commissioning of circuit 3 & 4 of 765 kV Angul Jharsuguda (iii) Prevailing pattern of load in downstream of 400/220 kV Maradam ICTs	ER-SR/WR-SR/Import of SR

ASSUMPTIONS 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)
I	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
II	EASTERN REGION				
1	Bihar	4534	3290	352	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
III	WESTERN REGION				
1	Maharashtra	20141	17026	16345	14514
2	Gujarat	15838	13877	10402	10095
3	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	4343	40029	30899
	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