

**National Load Despatch Centre
Total Transfer Capability for March 2020**

Issue Date: 31st December 2019

Issue Time: 1800 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 March 2020 to 31st March 2020	00-06	2500	500	2000	195	1805			
		06-18				250	1750			
		18-24				195	1805			
WR-NR*	1st March 2020 to 31st March 2020	00-06	14900 13950**	500	14400 13450**	10231 9281**	4169 4169**		Revised STOA margin due to the following:- a) Operationalization of 10 MW LTA from AGEMPL (Wind, Bhuj) to Noida Power Company Limited (UP) b) Change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 112 MW to 117.6 MW	
		06-18	14900 13950**		14400 13450**	10420 9470**	3980 3980**			
		18-24	14900 13950**		14400 13450**	10231 9281**	4169 4169**			
NR-ER*	1st March 2020 to 31st March 2020	00-06	2000	200	1800	193	1607			
		06-18				1800	1497			
		18-24				1800	1607			
ER-NR*	1st March 2020 to 31st March 2020	00-24	5250	300	4950	4050	900			
W3-ER	1st March 2020 to 31st March 2020	00-24	No limit is being specified.							
ER-W3	1st March 2020 to 31st March 2020	00-24	No limit is being specified.							
WR-SR	1st March 2020 to 31st March 2020	00-05	5550	500	5050	4035	1015			
		05-22					5550	1015		
		22-24					5550	1015		
SR-WR *	1st March 2020 to 31st March 2020	00-24	No limit is being Specified.							
ER-SR	1st March 2020 to 31st March 2020	00-06	4950	250	4700	2663	2037			
		06-18				2748	1952			
		18-24				2663	2037			
SR-ER *	1st March 2020 to 31st March 2020	00-24	No limit is being Specified.							
ER-NER	1st March 2020 to 31st March 2020	00-17	1210	45	1165	334	831			
		17-23			955		621			
		23-24			1210		831			
NER-ER	1st March 2020 to 31st March 2020	00-17	1950	45	1905	0	1905			
		17-23			2155		2155			
		23-24			1905		1905			

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W3 zone Injection	1st March 2020 to 31st March 2020	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).

**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) 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
NR	1st February 2020 to 29th February 2020	00-06	20400	800	19600	14281	5319		Revised STOA margin due to the following:- a) Operationalization of 10 MW LTA from AGEMPL (Wind, Bhuj) to Noida Power Company Limited (UP) b) Change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 112 MW to 117.6 MW
			19450**		18650**	13331**			
		06-09	21900		21100	14470	6630		
			20950**		20150**	13520**			
		09-17	20400		19600	14470	5130		
			19450**		18650**	13520**			
	17-18	19850	19050	14470	4580				
		18900**	18100**	13520**					
	18-24	19850	19050	14281	4769				
		18900**	18100**	13331**					
NER	1st March 2020 to 31st March 2020	00-17	1210	45	1165	334	831		
		17-23	1000		955		621		
		23-24	1210		1165		831		
WR									
SR	1st March 2020 to 31st March 2020	00-06	10500	750	9750	6698	3052		
		06-18	10500		9750	6783	2967		
		18-24	10500		9750	6698	3052		

* 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 March 2020 to 31st March 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st March 2020 to 31st March 2020	00-17	1950	45	1905	0	1905		
		17-23	2200		2155		2155		
		23-24	1950		1905		1905		
WR									
SR *	1st March 2020 to 31st March 2020	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
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0-1
NR-ER	(n-1) contingency of 400 kV Saranath-Pusaui	Rev- 0-1
ER-NR	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- 0-1
WR-SR and ER-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0-1
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0-1
	Low Voltage at Gazuwaka (East) Bus.	Rev- 0-1
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 0-1
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing line	Rev- 0-1
W3 zone Injection	---	Rev- 0-1

Limiting Constraints (Simultaneous)

		Applicable Revisions	
NR	Import	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- 0-1
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0-1
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusaui	Rev- 0-1
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 0-1
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing line	Rev- 0-1
SR	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0-1
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0-1
		Low Voltage at Gazuwaka (East) Bus.	Rev- 0-1

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Total Transfer Capability for March 2020**

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	31st December 2019	Whole Month	Revised STOA margin due to the following:- a) Operationalization of 10 MW LTA from AGEMPL (Wind, Bhuj) to Noida Power Company Limited (UP) b) Change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 112 MW to 117.6 MW	WR-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : March'20	
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	7428	5706	2828	2753
2	Haryana	7758	5614	1872	1872
3	Rajasthan	12309	12150	7305	7411
4	Delhi	4556	2786	591	591
5	Uttar Pradesh	13665	12236	6567	6497
6	Uttarakhand	1960	1394	810	503
7	Himachal Pradesh	1544	1204	299	176
8	Jammu & Kashmir	2112	2202	516	604
9	Chandigarh	260	140	0	0
10	ISGS/IPPs	27	26	18491	11987
	Total NR	51618	43457	39279	32394
II	EASTERN REGION				
1	Bihar	4731	3187	178	180
2	Jharkhand	1235	964	408	392
3	Damodar Valley Corporation	3087	2823	4391	3825
4	Orissa	4306	2951	3367	2300
5	West Bengal	6534	5471	5044	3982
6	Sikkim	229	292	0	0
7	Bhutan	182	173	201	281
8	ISGS/IPPs	641	651	13217	10006
	Total ER	20946	16512	26805	20966
III	WESTERN REGION				
1	Maharashtra	19845	14168	15665	10912
2	Gujarat	15423	12945	11430	9642
3	Madhya Pradesh	10953	7703	6725	3923
4	Chattisgarh	4485	3675	2280	2280
5	Daman and Diu	342	277	0	0
6	Dadra and Nagar Haveli	854	750	0	0
7	Goa-WR	563	361	0	0
8	ISGS/IPPs	5421	4457	41073	35927
	Total WR	57886	44336	77173	62684

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	9149	7298	6374	5263
2	Telangana	11085	9400	4943	4643
3	Karnataka	10033	6255	7707	3862
4	Tamil Nadu	16685	13528	6897	5947
5	Kerala	4246	2882	1772	547
6	Pondy	335	287	0	0
7	Goa-SR	66	56	0	0
8	ISGS/PPs	0	0	18175	12179
	Total SR	51599	39706	45868	32442
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	145	90	8	8
2	Assam	1654	1173	244	216
3	Manipur	206	88	0	0
4	Meghalaya	293	193	243	106
5	Mizoram	105	67	60	21
6	Nagaland	128	80	12	0
7	Tripura	225	135	75	77
8	ISGS/PPs	136	83	2107	1648
	Total NER	2891	1909	2749	2076
	Total All India	184940	145920	191873	150561