

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

Issue Date: 06th January 2020

Issue Time: 1230 hrs

Revision No. 6

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 January 2020 to 31st January 2020	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st January 2020 to 2nd January 2020	00-06	14900	500	14400	10231	4169		
			13950**		13450**	9281**	4169**		
		06-18	14900	500	14400	10420	3980		
			13950**		13450**	9470**	3980**		
		18-24	14900	500	14400	10231	4169		
			13950**		13450**	9281**	4169**		
	3rd January 2020 to 4th January 2020	00-06	14900	500	14400	10231	4169		
			13950**		13450**	9281**	4169**		
		06-0830	14900	500	14400	10420	3980		
			13950**		13450**	9470**	3980**		
		0830-18	13800	500	13300	10420	2880		
			12850**		12350**	9470**	2880**		
18-24	13800	500	13300	10231	3069				
	12850**		12350**	9281**	3069**				
5th January 2020 to 6th January 2020	00-06	14900	500	14400	10231	4169			
		13950**		13450**	9281**	4169**			
	06-0830	14900	500	14400	10420	3980			
		13950**		13450**	9470**	3980**			
	0830-18	13800	500	13300	10420	2880			
		12850**		12350**	9470**	2880**			
18-24	13800	500	13300	10231	3069				
	12850**		12350**	9281**	3069**				
7th January 2020	00-06	14900	500	14400	10231	4169			
		13950**		13450**	9281**	4169**			
	06-0830	14900	500	14400	10420	3980			
		13950**		13450**	9470**	3980**			
	0830-18	14400	500	13900	10420	3480		Reduction in TTC/ATC due to planned outage of 765 kV Gwalior - Orai S/C	
		13450**		12950**	9470**	3480**	-500		
18-24	14400	500	13900	10231	3669				
	13450**		12950**	9281**	3669**				
8th January 2020 to 31st January 2020	00-06	14900	500	14400	10231	4169			
		13950**		13450**	9281**	4169**			
	06-18	14900	500	14400	10420	3980			
		13950**		13450**	9470**	3980**			
18-24	14900	500	14400	10231	4169				
	13950**		13450**	9281**	4169**				
NR-ER*	1st January 2020 to 31st January 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st January 2020 to 31st January 2020	00-24	5250	300	4950	4050	900		

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W3-ER	1st January 2020 to 31st January 2020	00-24	No limit is being specified.						
ER-W3	1st January 2020 to 31st January 2020	00-24	No limit is being specified.						
WR-SR	1st January 2020 to 4th January 2020	00-05	5050	500	4550	4035	515		
		05-22	5050		4550		515		
		22-24	5050		4550		515		
	5th January 2020 to 6th January 2020	00-05	5050	500	4550	4035	515		
		05-22	5050		4550		515		
		22-24	5050		4550		515		
	7th January 2020 to 31st January 2020	00-05	5550	500	5050	4035	1015		
		05-22	5550		5050		1015		
		22-24	5550		5050		1015		
SR-WR *	1st January 2020 to 31st January 2020	00-24	No limit is being Specified.						
ER-SR	1st January 2020 to 31st January 2020	00-06	4950	250	4700	2663	2037		
		06-18				2748	1952		
		18-24				2663	2037		
SR-ER *	1st January 2020 to 31st January 2020	00-24	No limit is being Specified.						
ER-NER	1st January 2020 to 31st January 2020	00-17	1300	45	1255	334	921		
		17-23	1000		955		621		
		23-24	1300		1255		921		
NER-ER	1st January 2020 to 31st January 2020	00-17	2650	45	2605	0	2605		
		17-23	2610		2565		2565		
		23-24	2650		2605		2605		
W3 zone Injection	1st January 2020 to 31st January 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 - Vindhyaachal 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 January 2020 to 2nd January 2020	00-06	20400	800	19600	14281	5319		
			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**					
	3rd January 2020 to 4th January 2020	00-06	20400	800	19600	14281	5319		
			19450**		18650**	13331**			
		06-0830	21900		21100	14470	6630		
			20950**		20150**	13520**			
		0830-09	20300		19500	14470	5030		
			19350**		18550**	13520**			
	09-17	18900	18100	14470	3630				
		17950**	17150**	13520**					
17-18	18400	17600	14470	3130					
	17450**	16650**	13520**						
18-24	18400	17600	14281	3319					
	17450**	16650**	13331**						
5th January 2020 to 6th January 2020	00-06	20400	800	19600	14281	5319			
		19450**		18650**	13331**				
	06-0830	21900		21100	14470	6630			
		20950**		20150**	13520**				
	0830-09	20300		19500	14470	5030			
		19350**		18550**	13520**				
09-17	18900	18100	14470	3630					
	17950**	17150**	13520**						
17-18	18400	17600	14470	3130					
	17450**	16650**	13520**						
18-24	18400	17600	14281	3319					
	17450**	16650**	13331**						

	7th January 2020	00-06	20400 19450**	800	19600 18650**	14281 13331**	5319	0	Reduction in TTC/ATC due to planned outage of 765 kV Gwalior - Orai S/C
		06-0830	21900 20950**		21100 20150**	14470 13520**	6630	0	
			0830-09		21200 20250**	20400 19450**	14470 13520**	5930	
		09-17			19750 18800**	18950 18000**	14470 13520**	4480	
			17-18		19200 18250**	18400 17450**	14470 13520**	3930	
		18-24			19200 18250**	18400 17450**	14281 13331**	4119	
	8th January 2020 to 31st January 2020	00-06	20400 19450**	800	19600 18650**	14281 13331**	5319		
			06-09		21900 20950**	21100 20150**	14470 13520**	6630	
		09-17			20400 19450**	19600 18650**	14470 13520**	5130	
			17-18		19850 18900**	19050 18100**	14470 13520**	4580	
		18-24			19850 18900**	19050 18100**	14281 13331**	4769	
<b>NER</b>	1st January 2020 to 31st January 2020	00-17	1300	45	1255	334	921		
		17-23	1000		955		621		
		23-24	1300		1255		921		
<b>WR</b>									
<b>SR</b>	1st January 2020 to 4th January 2020	00-06	10000	750	9250	6698	2552		
		06-18	10000		9250	6783	2467		
		18-24	10000		9250	6698	2552		
	5th January 2020 to 6th January 2020	00-06	10000	750	9250	6698	2552		
		06-18	10000		9250	6783	2467		
		18-24	10000		9250	6698	2552		
	7th January 2020 to 31st January 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
<b>NR*</b>	1st January 2020 to 31st January 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
<b>NER</b>	1st January 2020 to 31st January 2020	00-17	2650	45	2605	0	2605		
		17-23	2610		2565		2565		
		23-24	2650		2605		2605		
<b>WR</b>									
<b>SR *</b>	1st January 2020 to 31st January 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
<b>WR-NR</b>	N-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 3, 6
	N-1 contingency of 765/400 kV, 1500 MVA ICT at Agra-PG will overload the other ICT	Rev- 4,5
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 6
<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 6
<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 6
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0 to 6
	Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 6
<b>ER-NER</b>	a. N-1 contingency of 400 kV Bongaigaon - Azara line b. High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 0 to 6
<b>NER-ER</b>	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Bongaigaon-Killing line	Rev- 0 to 2
	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Silchar-Killing line	Rev- 3-6
<b>W3 zone Injection</b>	---	Rev- 0 to 6

### 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 6
		N-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 3, 6
		N-1 contingency of 765/400 kV, 1500 MVA ICT at Agra-PG will overload the other ICT	Rev- 4, 5
	<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 6 Rev- 0 to 6
<b>NER</b>	<b>Import</b>	a. N-1 contingency of 400 kV Bongaigaon - Azara line b. High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 0 to 6
		<b>Export</b>	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Bongaigaon-Killing line
	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Silchar-Killing line		Rev- 3-6
	<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
n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT			Rev- 0 to 6
Low Voltage at Gazuwaka (East) Bus.			Rev- 0 to 6

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

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	18th November 2019	Whole Month	Revised STOA margin due to 4.2 MW LTA and 19.76 MW MTOA to Assam from GIWEL	ER-NER/Import of NER
2	29th November 2019	Whole Month	Revised STOA margin due to the following.  <b>Operationalization of following LTAs:-</b> a) AGEMPL to UPPCL – 40 MW b) GIWEL_SECI-III_RE to Punjab – 112 MW c) SEISPPPL_MP to TPDDL – 90 MW  <b>Revision in LTA quantum of following:-</b> a) INOX to UPPCL – 100 MW to 50 MW b) RPL-SECI-II-RE to UPPCL – 34.5 MW to 73.8 MW c) RPL-SECI-II-RE to Punjab – 73.8 MW to 100 MW d) Mahindra - Rewa UMSP to DMRC – 7.75 MW to 33 MW	WR-NR/Import of NR
			Revised STOA margin due to allocation of 100 MW quantum from NTPC-WR to Andhra Pradesh.	WR-SR/Import of SR
3	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
			Revision in TTC/ATC due to the following:- a) Non availability of 220 kV Misa-Kopili and 132 kV Khandong- Kopili link b) Long outage of Kopili generation due to bursting of Penstock at Kopili c) Forced outage of Palatana Module-1 d) Change in Load-Generation of NER	ER-NER/NER-ER corridor and Import/Export of NER
		01st Jan 2020 to 04th Jan 2020	Reduction in TTC/ATC due to forced outage of HVDC Bhadrawati Block-I	WR-SR/Import of SR
4	2nd January 2020	3rd Jan 2020 to 4th Jan 2020	Reduction in TTC/ATC due to planned outage of 765 kV Phagi - Gwalior - I	WR-NR/Import of NR
5	4th Jan 2020	5th Jan 2020 to 6th Jan 2020	Reduction in TTC/ATC due to planned outage of 765 kV Phagi - Gwalior - II	WR-NR/Import of NR
6	6th Jan 2020	7th Jan 2020	Reduction in TTC/ATC due to planned outage of 765 kV Gwalior - Orai S/C	WR-NR/Import of NR



ASSUMPTIONS IN BASECASE					
				Month : January'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	7620	5837	3839	3687
2	Haryana	7609	6313	1734	1734
3	Rajasthan	11864	11880	7595	7674
4	Delhi	4955	2966	718	718
5	Uttar Pradesh	13788	12963	6160	6142
6	Uttarakhand	1851	1394	703	461
7	Himachal Pradesh	1168	892	145	75
8	Jammu & Kashmir	1971	2079	421	421
9	Chandigarh	293	170	0	0
10	ISGS/PPs	27	27	17739	11795
	Total NR	51144	44520	39053	32706
II	EASTERN REGION				
1	Bihar	4565	3383	165	165
2	Jharkhand	1140	989	362	327
3	Damodar Valley Corporation	2600	2971	4562	3873
4	Orissa	4054	3098	3268	2234
5	West Bengal	7013	5688	4926	3921
6	Sikkim	225	311	0	0
7	Bhutan	178	347	336	281
8	ISGS/PPs	-178	-347	12627	9543
	Total ER	19596	16440	26244	20344
III	WESTERN REGION				
1	Maharashtra	19414	11587	15086	10205
2	Gujarat	15089	11817	10252	8665
3	Madhya Pradesh	10715	8841	3652	4046
4	Chattisgarh	4390	2701	2460	2390
5	Daman and Diu	334	214	0	0
6	Dadra and Nagar Haveli	836	637	0	0
7	Goa-WR	551	295	0	0
8	ISGS/PPs	5331	4036	43289	31372
	Total WR	56660	40129	74740	56677

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	9440	7721	7006	5245
2	Telangana	10136	7870	4948	4648
3	Karnataka	9838	6400	7796	4125
4	Tamil Nadu	13865	11313	6747	5897
5	Kerala	3836	2263	1484	189
6	Pondy	304	304	0	0
7	Goa-SR	59	59	0	0
8	ISGS/PPs	0	0	14019	12129
	Total SR	47477	35931	42000	32233
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	69	0	0
2	Assam	1466	1082	234	206
3	Manipur	193	115	0	0
4	Meghalaya	349	261	112	58
5	Mizoram	99	68	34	23
6	Nagaland	124	81	12	4
7	Tripura	211	133	99	99
8	ISGS/PPs	133	79	2071	1680
	Total NER	2698	1887	2562	2069
	Total All India	177575	138907	184600	144031