National Load Despatch Centre Total Transfer Capability for January 2020

Issue Date: 04th January 2020

Issue Time: 1130 hrs

Revision No. 5

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 January	00-06				195	1805			
NR-WR*	2020 to 31st	06-18	2500	500	2000	250	1750			
	January 2020	18-24				195	1805			
		00-06	14900	500	14400	10231	4169			
	1st January		13950** 14900		13450** 14400	9281** 10420	4169** 3980		-	
	2020 to 2nd January 2020	06-18	13950**	500	13450**	9470**	3980**			
		10.01	14900		14400	10231	4169			
		18-24	13950**	500	13450**	9281**	4169**			
		00.00	14900	500	14400	10231	4169			
		00-06	13950**	500	13450**	9281**	4169**			
			14900		14400	10420	3980			
	3rd January	06-0830	13950**	500	13450**	9470**	3980**			
	2020 to 4th January 2020		13800		13300	10420	2880		-	
		0830-18	12850**	500	12350**	9470**	2880**			
		18-24	12830		13300	10231	3069			
			12050**	500	12250**	0001**	20.00**			
WR-NR*	5th January 2020 to 6th January		12850** 14900		12350** 14400	9281** 10231	3069** 4169			
		00-06		500			11 CO.h.t.			
		06-0830	13950** 14900		13450** 14400	9281** 10420	4169** 3980			
				500					Reduction in TTC/ATC due to	
			13950** 13800		13450** 13300	9470** 10420	3980** 2880		planned outage of 765 kV Phagi -	
	2020	0830-18	15800	500	15500		2000		Gwalior - II	
			12850**		12350**	9470**	2880**	-1100		
		18-24	13800	500	13300	10231	3069			
			12850**		12350**	9281**	3069**			
		00-06	14900	500	14400	10231	4169			
			13950**		13450**	9281**	4169**		-	
	7th January 2020 to 31st	06-18	14900	500	14400	10420	3980			
	January 2020		13950**		13450**	9470**	3980**			
		18-24	14900	500	14400	10231	4169			
		10.21	13950**	500	13450**	9281**	4169**			
	1st January	00-06	2000		1800	193	1607			
NR-ER*	2020 to 31st January 2020	06-18	2000	200	1800	303	1497			
	1st January	18-24	2000		1800	193	1607			
ER-NR*	2020 to 31st January 2020	00-24	5250	300	4950	4050	900			
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.						

National Load Despatch Centre Total Transfer Capability for January 2020

Issue Time: 1130 hrs Issue Date: 04th January 2020 Revision No. 5 Changes Available Long Term Access Margin Available Total Transfer in TTC Reliability (LTA)/ Medium Time Transfer for Short Term Corridor Capability Date w.r.t. Comments Period (hrs) Margin Capability Term Open Acces **Open Access** (TTC) Last (ATC) (MTOA) # (STOA) Revision 5050 4550 00-05 515 1st January WR-SR 2020 to 4th 500 4035 05-22 5050 4550 515 January 2020 22-24 5050 4550 515 00-05 5050 4550 515 5th January Reduction in TTC/ATC due to forced outage of HVDC Bhadrawati WR-SR 2020 to 6th 05-22 500 4550 4035 -500 5050 515 January 2020 Block-I 22-24 5050 4550 515 00-05 5550 5050 1015 7th January WR-SR 2020 to 31st 500 4035 05-22 5550 5050 1015 January 2020 22-24 5550 5050 1015 1st January SR-WR * 2020 to 31st 00-24 No limit is being Specified. January 2020 2037 00-06 2663 1st January 4950 ER-SR 2020 to 31st 06-18 250 4700 2748 1952 January 2020 18-24 2663 2037 1st January SR-ER * 2020 to 31st No limit is being Specified. 00-24 January 2020 1st January 00-17 1300 1255 921 ER-NER 2020 to 31st 45 955 334 1000 17-23 621 January 2020 23-24 1300 1255 921 1st January 00-17 2650 2605 2605 0 NER-ER 2020 to 31st 45 2565 17-23 2610 2565 January 2020 23-24 2605 2650 2605 1st January W3 zone 2020 to 31st 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly) Injection January 2020 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) 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

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
		00-06	20400		19600	14281	5319		
			19450**		18650**	13331**			
		06-09	21900		21100	14470	6630		
		00-09	20950**		20150**	13520**	0050		
	1st January		20400		19600	14470			
	2020 to 2nd January 2020	09-17	19450**	800	18650**	13520**	5130		
	Junuary 2020		19850		19050	14470			-
		17-18					4580		
			18900** 19850		18100** 19050	13520** 14281			
		18-24	19850		19050	14201	4769		
			18900**		18100**	13331**			
		00-06	20400	-	19600	14281	5319		
			19450**		18650**	13331**			
		06-0830	21900		21100	14470	6630		
		00-0850	20950**		20150**	13520**	0030		
		0830-09	20300		19500	14470			
	3rd January		19350**		18550**	13520**	5030		
	2020 to 4th January 2020			800	18100	13320			-
	January 2020	09-17	18900 17950**				3630		
			18400	2400	17150** 17600	13520** 14470			
		17-18		17000	144/0	3130			
			17450**		16650**	13520**			
		18-24	18400		17600	14281	3319		
NR		10 21	17450**		16650**	13331**	5517		
		00.00	20400		19600	14281	5210		
		00-06	19450**		18650**	13331**	5319	0	
			21900		21100	14470		0	
		06-0830	20950**		20150**	13520**	6630		
			20330		19500	13320			1
	5th January 2020	0830-09	19350**	800	18550**	13520**	5030	-1600	Reduction in TTC/ATC due to
	to 6th January	0.0.1-	18900	800	18100	14470			planned outage of 765 kV Phagi Gwalior - II
	2020	09-17	17950**		17150** 13520**	13520**	3630	-1500	
			18400		17600	14470			1
		17-18			1//=^**	12520**	3130	-1450	
			17450** 18400		16650** 17600	13520** 14281			+
		18-24					3319	-1450	
			17450**		16650**	13331**			

			20400		19600	14281			
		00-06					5319		
			19450**		18650**	13331**			
		06-09	21900		21100	14470	6630		
		00 05	20950**		20150**	13520**	0050		
	7th January		20400		19600	14470			
	2020 to 31st January 2020	09-17	19450**	800	18650**	13520**	5130		
	January 2020		19450**		18650**	13520***			-
		17-18	19850		19050	14470	4580		
			18900**		18100**	13520**			_
		10.04	19850		19050	14281	17.00		
		18-24	18900**		18100**	13331**	4769		
	1st January	00-17	1300		1255		921		
NER	2020 to 31st	17-23	1000	45	955	334	621		
	January 2020	23-24	1300		1255		921		
WR									
	1st January	00-06	10000		9250	6698	2552		
	2020 to 04th	06-18	10000 750 9250 6783 2467	2467					
	January 2020	18-24	10000		9250	6698	2552		
	05th January	00-06	10000		9250	6698	2552		Reduction in TTC/ATC due to
SR	2020 to 06th	06-18	10000	750	9250	6783	2467	-500	forced outage of HVDC
	January 2020	18-24	10000		9250	6698	2552		Bhadrawati Block-I
	07th January	00-06	10500		9750	6698	3052		
	2020 to 31st	06-18	10500	750	9750	6783	2967]	
	January 2020	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 exbus 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
	1st January	00-06	4500		3800	388	3412		
NR*	2020 to 31st	06-18	4500	700	3800	553	3247		
	January 2020	18-24	4500		3800	388	3412		
	1st January	00-17	2650		2605		2605		
NER	2020 to 31st	17-23	2610	45	2565	0	2565		
	January 2020	23-24	2650		2605		2605		
WR									
SR *	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)

		Applicable Revisions
Corridor	Constraint	
WR-NR	N-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 3
W K-INK	N-1 contigency of 765/400 kV, 1500 MVA ICT at Agra-PG will overload the other ICT	Rev- 4,5
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 5
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 to 5
WR-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0 to 5
and ER- SR	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0 to 5
эк	Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 5
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 to 5
NER-ER	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Bongaigaon-Killing line	Rev- 0 to 2
NEK-EK	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Silchar-Killing line	Rev- 3-5
W3 zone Injection		Rev- 0 to 5

Limiting Constraints (Simultaneous)

Linning	Constraints	(Simultaneous)	Applicable Revisions
		 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 to 5
NR	Import	N-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 4
		N-1 contigency of 765/400 kV, 1500 MVA ICT at Agra-PG will overload the other ICT	Rev- 5
	Б ((n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 5
	Export	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 5
	Import	a. N-1 contingency of 400 kV Bongaigaon - Azara lineb. High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 0 to 5
NER	Export	a. N-1 contingency of 400 kV Silchar- Azara Lineb. High Loading of 400 kV Bongaigaon-Killing line	Rev- 0 to 2
		a. N-1 contingency of 400 kV Silchar- Azara Lineb. High Loading of 400 kV Silchar-Killing line	Rev- 3-5
	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0 to 5
SR		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0 to 5
		Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 5

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. Operationalization of following LTAs:- a) AGEMPL to UPPCL – 40 MW b) GIWEL_SECI-III_RE to Punjab – 112 MW c) SEISPPL_MP to TPDDL – 90 MW Revision in LTA quantum of following:- 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
			 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
3	31st December 2019	Whole Month	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	Reduction in TTC/ATC due to planned outage of 765 kV Phagi - Gwalior - II	WR-NR/Import of NR
		2020	Reduction in TTC/ATC due to forced outage of HVDC Bhadrawati Block-I	WR-SR/Import of SR

ASSUN	IPTIONS 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/IPPs	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/IPPs	-178	-347	12627	9543	
	Total ER	19596	16440	26244	20344	
	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/IPPs	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/IPPs	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/IPPs	133	79	2071	1680	
	Total NER	2698	1887	2562	2069	
	Total All India	177575	138907	184600	144031	