

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

Issue Date: 28th November 2019

Issue Time: 1130 hrs

Revision No. 8

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 November 2019 to 30th November 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st November 2019 to 26th November 2019	00-24	14900	500	14400	10067	4333		
			13950**		13450**	9117**	4333**		
	27th November 2019 to 28th November 2019	00-830'	14900	500	14400	10067	4333		
		13950**	13450**		9117**	4333**			
	830-24'	14100	500	13600	10067	3533			
		13150**		12650**	9117**	3533**			
29th November 2019 to 30th November 2019	00-730'	14900	500	14400	10067	4333			
	13950**	13450**		9117**	4333**				
730-24'	12300	500	11800	10067	1733		-2600	Revised due to shutdown of 765kV Agra-Jhatikara line on daily basis	
11350**	10850**		9117**	1733**					
NR-ER*	1st November 2019 to 30th November 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st November 2019 to 30th November 2019	00-24	5250	300	4950	4050	900		
W3-ER	1st November 2019 to 30th November 2019	00-24	No limit is being specified.						
ER-W3	1st November 2019 to 30th November 2019	00-24	No limit is being specified.						
WR-SR	1st November 2019 to 21st November 2019	00-05	5550	500	5050	3888	1162		
		05-22	5550		5050		1162		
		22-24	5550		5050		1162		
	22nd November 2019 to 23rd November 2019	00-05	5050	500	4550	3888	662		
		05-22	5050		4550		662		
		22-24	5050		4550		662		
	24th November 2019 to 30th November 2019	00-05	5550	500	5050	3888	1162		
		05-22	5550		5050		1162		
		22-24	5550		5050		1162		
SR-WR *	1st November 2019 to 30th November 2019	00-24	No limit is being Specified.						

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ER-SR	1st November 2019 to 30th November 2019	00-06	4950	250	4700	2748	1952			
		06-18				2833	1867			
		18-24				2748	1952			
SR-ER *	1st November 2019 to 30th November 2019	00-24	No limit is being Specified.							
ER-NER	1st November 2019 to 30th November 2019	00-17	1370	45	1325	334	991			
		17-23	1030		985		651			
		23-24	1370		1325		991			
NER-ER	1st November 2019 to 9th November 2019	00-17	2400	45	2355	0	2355			
		17-23	2450		2405		2405			
		23-24	2400		2355		2355			
	10th November 2019	00-08	2400	45	2355	0	2355			
		08-17	1840		1795		1795			
		17-23	1750		1705		1705			
		23-24	1840		1795		1795			
	11th November 2019 to 30th November 2019	00-17	2400	45	2355	0	2355			
		17-23	2450		2405		2405			
		23-24	2400		2355		2355			
	W3 zone Injection	1st November 2019 to 30th November 2019	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 - Vindhyaal 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 Vidut 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.



<b>NER</b>	1st November 2019 to 30th November 2019	00-17	1370	45	1325	334	991		
		17-23	1030		985		651		
		23-24	1370		1325		991		
<b>WR</b>									
<b>SR</b>	1st November 2019 to 21st November 2019	00-06	10500	750	9750	6636	3114		
		06-18	10500		9750	6721	3029		
		18-24	10500		9750	6636	3114		
	22nd November 2019 to 23rd November 2019	00-06	10000	750	9250	6636	2614		
		06-18	10000		9250	6721	2529		
		18-24	10000		9250	6636	2614		
	24th November 2019 to 30th November 2019	00-06	10500	750	9750	6636	3114		
		06-18	10500		9750	6721	3029		
		18-24	10500		9750	6636	3114		

\* 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 November 2019 to 30th November 2019	00-06	4500	700	3800	388	3412			
		06-18			3800	553	3247			
		18-24	4500		3800	388	3412			
NER	1st November 2019 to 9th November 2019	00-17	2400	45	2355	0	2355			
		17-23	2450		2405		2405			
		23-24	2400		2355		2355			
	10th November 2019	00-08	2400	45	2355	0	2355			
		08-17	1840		1795		1795			
		17-23	1750		1705		1705			
		23-24	1840		1795		1795			
	11th November 2019 to 30th November 2019	00-17	2400	45	2355	0	2355			
		17-23	2450		2405		2405			
		23-24	2400		2355		2355			
	WR									
SR *	1st November 2019 to 30th November 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)

		Applicable Revisions
Corridor	Constraint	
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak	Rev-0 to 8
<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 8
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
<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 8
<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 8
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 8
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8
<b>ER-NER</b>	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa will lead to high loading of 220 kV Balipara-Sonabil line (200 MW)	Rev-0 to 2
	a. N-1 contingency of 400 kV Bongaigaon- Azara line will lead to high Loading of 220 kV Salakati-BTPS D/C(200 MW)	Rev- 3 to 8
<b>NER-ER</b>	(n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 2
	N-1 contingency of 400 kV Silchar-Azara line will lead to high Loading of 400 kV Killing-Bongaigaon line.	Rev-3
	N-1 contingency of 400 kV Bongaigaon- Alipurduar circuit I will lead to high Loading of 220 kV Salakati-Alipurduar D/C	Rev-4-8
<b>W3 zone Injection</b>	---	Rev-0 to 8

### 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 8
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 8
<b>NER</b>	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 8
		(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
	<b>Import</b>	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa will lead to high loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 2
		a. N-1 contingency of 400 kV Bongaigaon- Azara line will lead to high Loading of 220 kV Salakati-BTPS D/C(200 MW)	Rev- 3 to 8
<b>Export</b>	(n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 2	
	N-1 contingency of 400 kV Silchar-Azara line will lead to high Loading of 400 kV Killing-Bongaigaon line.	Rev-3	
	N-1 contingency of 400 kV Bongaigaon- Alipurduar circuit I will lead to high Loading of 220 kV Salakati-Alipurduar D/C	Rev-4-8	
<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 8
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 8
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8

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Total Transfer Capability for November 2019**

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th August 2019	Whole Month	Revised STOA margin due to the following:- a) Revision in LTA quantum from RPL-SECI-II to Punjab- from 47.2 MW to 50.4 MW b) Revision in LTA quantum from RPL-SECI-II to UPPCL- from 47.2 MW to 50.4 MW	WR-NR / NR Import
			Revised STOA margin due to operationalization of 65 MW LTA from NPGC to UP	ER-NR/ NR Import
			Revised STOA margin due to completion of 14 MW MTOA from NSPCL to SAIL (Salem), TN	WR-SR/Import of SR
2	13th September 2019	Whole Month	Revised considering Load Generation balance and HVDC set points as per present system conditions	WR-NR/Import of NR
3	29th October 2019	Whole Month	Revised TTC due to following: (i) Long outage of Kopili and Khandong generation because of bursting of Penstock at Kopili (ii) Long Outage of Palatana Module-1 due to rotor earth fault. (iii) Non availability of 220 kV Misa-Kopili and 132 kV Khandong- Kopili link.	NER-ER//Export of NER
			(a) Revised TTC due to change in LGBR and (b) revised STOA margin due to 4.2 MW LTA and 19.76 MW MTOA to Assam from GIWEL	ER-NER/Import of NER
4	8th November 2019	10th November	TTC/ATC revised due to shutdown of 400 kV Bongaigaon - New Siliguri D/C for stringing works of under construction 400kV second Alipurduar-Binaguri line	NER-ER//Export of NER
5	21st November 2019	22nd November to 30th November 2019	Revised due to forced outage and frequent tripping of HVDC Block-1 at Bhadravathi	WR-SR/Import of SR
6	23rd November 2019	24th November to 30th November 2019	Revised due to restoration of Bhadravathi HVDC Block-1.	WR-SR/Import of SR
7	25th November 2019	27th November to 28th November 2019	Revised due to shutdown of 765kV Phagi-Gwalior-1	WR-NR/Import of NR
8	28th November 2019	29th November to 30th November 2019	Revised due to shutdown of 765kV Agra-Jhatikara line on daily basis	WR-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : November'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	7875	5192	4226	4000
2	Haryana	7646	4763	1734	1734
3	Rajasthan	11378	11032	7073	7012
4	Delhi	4481	2498	799	799
5	Uttar Pradesh	13818	13077	6140	6161
6	Uttarakhand	2129	1572	912	600
7	Himachal Pradesh	1772	1243	323	235
8	Jammu & Kashmir	2302	1938	568	507
9	Chandigarh	243	131	0	0
10	ISGS/IPPs	27	26	19237	10332
	Total NR	51671	41473	41011	31379
II	EASTERN REGION				
1	Bihar	4871	3078	168	161
2	Jharkhand	1221	892	369	319
3	Damodar Valley Corporation	2784	2680	4652	3775
4	Orissa	4122	2714	2847	2178
5	West Bengal	7585	5552	5024	3823
6	Sikkim	240	280	0	0
7	Bhutan	185	177	336	281
8	ISGS/IPPs	639	646	12884	9296
	Total ER	21648	16020	26279	19832
III	WESTERN REGION				
1	Maharashtra	20019	13925	14607	10403
2	Gujarat	15146	11884	9281	9100
3	Madhya Pradesh	12770	9774	5641	4518
4	Chattisgarh	4311	2747	2682	2466
5	Daman and Diu	337	236	0	0
6	Dadra and Nagar Haveli	824	565	0	0
7	Goa-WR	584	363	0	0
8	ISGS/IPPs	5450	4364	44276	34265
	Total WR	59439	43858	76486	60753



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	10285	7851	6911	5245
2	Telangana	11764	10518	4899	4549
3	Karnataka	9649	5970	7902	4265
4	Tamil Nadu	14497	12094	6397	5697
5	Kerala	3819	2181	1475	213
6	Pondy	338	310	0	0
7	Goa-SR	66	61	0	0
8	ISGS/IPPs	0	0	18497	12129
	Total SR	50420	38984	46081	32098
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	66	0	0
2	Assam	1792	1127	204	176
3	Manipur	197	91	0	0
4	Meghalaya	317	241	144	82
5	Mizoram	99	65	38	33
6	Nagaland	117	74	16	6
7	Tripura	278	164	99	99
8	ISGS/IPPs	104	61	2388	1867
	Total NER	3026	1889	2889	2263
	Total All India	186204	142224	192746	146325