

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

Issue Date: 29th November 2019

Issue Time: 1800 hrs

Revision No. 3

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 December 2019 to 31st December 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st December 2019 to 31st December 2019	00-24	14900 13950**	500	14400 13450**	10404 9454**	3996 3996**		Revised STOA margin due to the following.  A. 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  B. 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
NR-ER*	1st December 2019 to 31st December 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st December 2019 to 31st December 2019	00-24	5250	300	4950	4050	900		
W3-ER	1st December 2019 to 31st December 2019	00-24	No limit is being specified.						
ER-W3	1st December 2019 to 31st December 2019	00-24	No limit is being specified.						
WR-SR	1st December 2019 to 31st December 2019	00-05	5550	500	5050	3988	1062		Revised STOA margin due to allocation of 100 MW quantum from NTPC-WR to Andhra Pradesh.
		05-22	5550		5050		1062		
		22-24	5550		5050		1062		
SR-WR *	1st December 2019 to 31st December 2019	00-24	No limit is being Specified.						

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

Issue Date: 29th November 2019

Issue Time: 1800 hrs

Revision No. 3

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
ER-SR	1st December 2019 to 31st December 2019	00-06	4950	250	4700		1952		
		06-18					2833	1867	
		18-24					2748	1952	
SR-ER *	1st December 2019 to 31st December 2019	00-24	No limit is being Specified.						
ER-NER	1st December 2019 to 31st December 2019	00-17	1550	45	1505	334	1171	-38	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 and Khandong generation due to bursting of Penstock at Kopili and c) Long Outage of Palatana Module-1 due to rotor earth fault. d) Change in Load-Generation of NER
		17-23	1000		955		621	-244	
		23-24	1550		1505		1171	-38	
NER-ER	1st December 2019 to 31st December 2019	00-17	2730	45	2685	0	2685	-107	
		17-23	2460		2415		2415	-371	
		23-24	2730		2685		2685	-107	
W3 zone Injection	1st December 2019 to 31st December 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 - 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.



<b>SR</b>	1st December 2019 to 31st December 2019	00-06	10500	750	9750	6736	3014	Revised STOA margin due to allocation of 100 MW quantum from NTPC-WR to Andhra Pradesh.
		06-18	10500		9750	6821	2929	
		18-24	10500		9750	6736	3014	

\* 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 December 2019 to 31st December 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st December 2019 to 31st December 2019	00-17	2730	45	2685	0	2685	-107	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 and Khandong generation due to bursting of Penstock at Kopili and c) Long Outage of Palatana Module-1 due to rotor earth fault. d) Change in Load-Generation of NER
		17-23	2460		2415		2415	-371	
		23-24	2730		2685		2685	-107	
WR									
SR *	1st December 2019 to 31st December 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	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak	Rev-0 to 3
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 3
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 3
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 to 3
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 to 3
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 3
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 3
ER-NER	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa b. High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev-0 to 2
	a) N-1 contingency of 400 kV Azara-Bongaigaon b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev-03
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
	a) N-1 contingency of 400 kV Silchar- Azara Line b) High Loading in internal Power System of Meghalaya	Rev-03
W3 zone Injection	---	Rev-0 to 3

### 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 to 3
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 3
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 3
		(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 3
NER	Import	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa b. High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev-0 to 2
		a) N-1 contingency of 400 kV Azara-Bongaigaon b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev-03
	Export	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 in internal Power System of Meghalaya	Rev-03
SR	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 3
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 3
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 3

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

<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	13th September 2019	Whole Month	Revised considering Load Generation balance and HVDC set points as per present system conditions	WR-NR/Import of NR
2	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
3	29th November 2019	Whole Month	<p>Revised STOA margin due to the following.</p> <p><b>Operationalization of following LTAs:-</b></p> <p>a) AGEMPL to UPPCL – 40 MW  b) GIWEL_SECI-III_RE to Punjab – 112 MW  c) SEISPPL_MP to TPDDL – 90 MW</p> <p><b>Revision in LTA quantum of following:-</b></p> <p>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</p>	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
			<p>Revision in TTC/ATC due to the following:-</p> <p>a) Non availability of 220 kV Misa-Kopili and 132 kV Khandong- Kopili link.  b) Long outage of Kopili and Khandong generation due to bursting of Penstock at Kopili and  c) Long Outage of Palatana Module-1 due to rotor earth fault.  d) Change in Load-Generation of NER</p>	ER-NER/NER-ER/Import-Export of NER

ASSUMPTIONS IN BASECASE					
				Month : December'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	7977	6899	4008	3820
2	Haryana	7790	6011	1734	1734
3	Rajasthan	12153	12298	8096	8093
4	Delhi	4983	2942	718	718
5	Uttar Pradesh	14092	13018	6200	6051
6	Uttarakhand	2024	1656	764	398
7	Himachal Pradesh	1531	1094	279	197
8	Jammu & Kashmir	2344	2327	575	542
9	Chandigarh	304	172	0	0
10	ISGS/IPPs	27	27	19267	12445
	Total NR	53225	46445	41640	33997
II	EASTERN REGION				
1	Bihar	4897	3256	168	161
2	Jharkhand	1228	949	369	319
3	Damodar Valley Corporation	2800	2851	4652	3775
4	Orissa	4145	2887	2847	2178
5	West Bengal	7399	5531	5024	3823
6	Sikkim	242	298	0	0
7	Bhutan	183	180	336	281
8	ISGS/IPPs	641	644	12884	9320
	Total ER	21535	16597	26279	19856
III	WESTERN REGION				
1	Maharashtra	18000	15576	14005	12734
2	Gujarat	14422	14167	8700	10119
3	Madhya Pradesh	13071	10461	5848	5042
4	Chattisgarh	4019	3534	2670	2520
5	Daman and Diu	325	321	0	0
6	Dadra and Nagar Haveli	807	733	0	0
7	Goa-WR	522	463	0	0
8	ISGS/IPPs	5119	4604	42069	35989
	Total WR	56284	49859	73293	66404



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	10126	7849	6911	5245
2	Telangana	11656	7173	4899	4314
3	Karnataka	9505	5951	7902	4423
4	Tamil Nadu	14273	11462	6397	5897
5	Kerala	3361	2243	1475	157
6	Pondy	333	309	0	0
7	Goa-SR	65	60	0	0
8	ISGS/IPPs	0	0	18497	12129
	Total SR	49319	35047	46081	32166
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	70	0	0
2	Assam	1576	1047	204	176
3	Manipur	223	105	0	0
4	Meghalaya	331	257	144	33
5	Mizoram	99	69	36	28
6	Nagaland	119	79	16	0
7	Tripura	220	139	93	93
8	ISGS/IPPs	138	85	2271	1863
	Total NER	2828	1849	2764	2193
	Total All India	183191	149797	190057	154617