

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

Issue Date: 29th October 2019

Issue Time: 1200 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 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 30th November 2019	00-24	14900	500	14400	10067	4333		
			13950**		13450**	9117**	4333**		
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 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.						
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.						

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<b>ER-NER</b>	1st November 2019 to 30th November 2019	00-17	1370	45	1325	334	991	-80	(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
		17-23	1030		985		651	-20	
		23-24	1370		1325		991	-80	
<b>NER-ER</b>	1st November 2019 to 30th November 2019	00-17	2400	45	2355	0	2355	-590	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.
		17-23	2450		2405		2405	-560	
		23-24	2400		2355		2355	-590	

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<b>W3 zone Injection</b>	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)						
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**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
<b>ER</b>									
<b>NR</b>	1st November 2019 to 30th November 2019	00-06	20400 19450**	800	19600 18650**	14117  13167**	5483 5483**		
		06-09	21900 20950**		21100 20150**		6983 6983**		
		09-17	20400 19450**		19600 18650**		5483 5483**		
		17-24	19850 18900**		19050 18100**		4933 4933**		
<b>NER</b>	1st November 2019 to 30th November 2019	00-17	1370	45	1325	334	991	-80	(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
		17-23	1030		985		651	-20	
		23-24	1370		1325		991	-80	
<b>WR</b>									
<b>SR</b>	1st 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
<b>NR*</b>	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		
<b>NER</b>	1st November 2019 to 30th November 2019	00-17	2400	45	2355	0	2355	-590	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.
		17-23	2450		2405		2405	-560	
		23-24	2400		2355		2355	-590	
<b>WR</b>									
<b>SR *</b>	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 3
<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
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 3
<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 3
<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 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
<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
<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
<b>W3 zone Injection</b>	---	Rev-0 to 3

### 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 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
	<b>Export</b>	(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	
<b>NER</b>	<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
	<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
<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 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

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<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	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

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	<b>NORTHERN REGION</b>				
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/PPs	27	26	19237	10332
	<b>Total NR</b>	<b>51671</b>	<b>41473</b>	<b>41011</b>	<b>31379</b>
II	<b>EASTERN REGION</b>				
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/PPs	639	646	12884	9296
	<b>Total ER</b>	<b>21648</b>	<b>16020</b>	<b>26279</b>	<b>19832</b>
III	<b>WESTERN REGION</b>				
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/PPs	5450	4364	44276	34265
	<b>Total WR</b>	<b>59439</b>	<b>43858</b>	<b>76486</b>	<b>60753</b>



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