

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

Issue Date: 28th July 2019

Issue Time: 1500 hrs

Revision No. 0

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	13500	500	13000	10060	2940		
			12550**		12050**	9110**	2940**		
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	3979	971		
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	3901	1149		
		05-22	5550		5050		1149		
		22-24	5550		5050		1149		
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.						
ER-NER	1st November 2019 to 30th November 2019	00-17	1450	45	1405	310	1095		
		17-23	1050		1005		695		
		23-24	1450		1405		1095		
NER-ER	1st November 2019 to 30th November 2019	00-17	2990	45	2945	0	2945		
		17-23	3010		2965		2965		
		23-24	2990		2945		2945		

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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)						

**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 - Vindhychal 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	18500	800	17700	14039	3661		
			17550**		16750**		3661**		
		06-09	19850		19050		5011		
			18900**		18100**		5011**		
		09-17	18500		17700		3661		
			17550**		16750**		3661**		
	17-24	18000	17200	3161					
		17050**	16250**	3161**					
<b>NER</b>	1st November 2019 to 30th November 2019	00-17	1450	45	1405	310	1095		
		17-23	1050		1005		695		
		23-24	1450		1405		1095		
<b>WR</b>									
<b>SR</b>	1st November 2019 to 30th November 2019	00-06	10500	750	9750	6649	3101		
		06-18	10500		9750	6734	3016		
		18-24	10500		9750	6649	3101		

\* 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**

<b>Corridor</b>	<b>Date</b>	<b>Time Period (hrs)</b>	<b>Total Transfer Capability (TTC)</b>	<b>Reliability Margin</b>	<b>Available Transfer Capability (ATC)</b>	<b>Long Term Access (LTA)/ Medium Term Open Access (MTOA)</b>	<b>Margin Available for Short Term Open Access (STOA)</b>	<b>Changes in TTC w.r.t. Last Revision</b>	<b>Comments</b>
<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	2990	45	2945	0	2945		
		17-23	3010		2965		2965		
		23-24	2990		2945		2945		
<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)

Corridor	Constraint	Applicable Revisions
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak	Rev-0
<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
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0
<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
<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
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0
	Low Voltage at Gazuwaka (East) Bus.	Rev-0
<b>ER-NER</b>	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0
<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
<b>W3 zone Injection</b>	---	Rev-0

### 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
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev-0
	<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
<b>NER</b>	<b>Import</b>	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0
	<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
<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
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0
		Low Voltage at Gazuwaka (East) Bus.	Rev-0

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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>

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	<b>SOUTHERN REGION</b>				
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
	<b>Total SR</b>	<b>50420</b>	<b>38984</b>	<b>46081</b>	<b>32098</b>
V	<b>NORTH-EASTERN REGION</b>				
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
	<b>Total NER</b>	<b>3026</b>	<b>1889</b>	<b>2889</b>	<b>2263</b>
	<b>Total All India</b>	<b>186204</b>	<b>142224</b>	<b>192746</b>	<b>146325</b>