

**National Load Despatch Centre**  
**Total Transfer Capability for January 2020**

Issue Date: 27th September 2019

Issue Time: 1800 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 January 2020 to 31st January 2020	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st January 2020 to 31st January 2020	00-24	14900	500	14400	10067	4333		
			13950**		13450**	9117**	4333**		
NR-ER*	1st January 2020 to 31st January 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st January 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.						
WR-SR	1st January 2020 to 31st January 2020	00-05	5550	500	5050	3935	1115		
		05-22	5550		5050		1115		
		22-24	5550		5050		1115		
SR-WR *	1st January 2020 to 31st January 2020	00-24	No limit is being Specified.						
ER-SR	1st January 2020 to 31st January 2020	00-06	4950	250	4700	2663	2037		
		06-18				2748	1952		
		18-24				2663	2037		
SR-ER *	1st January 2020 to 31st January 2020	00-24	No limit is being Specified.						
ER-NER	1st January 2020 to 31st January 2020	00-17	1300	45	1255	310	945		
		17-23	1250		1205		895		
		23-24	1300		1255		945		
NER-ER	1st January 2020 to 31st January 2020	00-17	2795	45	2750	0	2750		
		17-23	2800		2755		2755		
		23-24	2795		2750		2750		

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<b>W3 zone Injection</b>	1st January 2020 to 31st January 2020	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.

**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
NR	1st January 2020 to 31st January 2020	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**		
NER	1st January 2020 to 31st January 2020	00-17	1300	45	1255	310	945		
		17-23	1250		1205		895		
		23-24	1300		1255		945		
WR									
SR	1st January 2020 to 31st January 2020	00-06	10500	750	9750	6598	3152		
		06-18	10500		9750	6683	3067		
		18-24	10500		9750	6598	3152		

\* 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 January 2020 to 31st January 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
<b>NER</b>	1st January 2020 to 31st January 2020	00-17	2795	45	2750	0	2750		
		17-23	2800		2755		2755		
		23-24	2795		2750		2750		
<b>WR</b>									
<b>SR *</b>	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)

Corridor	Constraint	Applicable Revisions
<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-Pusaui	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 kV Bongaigaon - Azara line b. High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev-0
<b>NER-ER</b>	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Bongaigaon-Killing line	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-Pusaui	Rev-0
<b>NER</b>	<b>Import</b>	a. N-1 contingency of 400 kV Bongaigaon - Azara line b. High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev-0
	<b>Export</b>	a. N-1 contingency of 400 kV Silchar- Azara Line b. High Loading of 400 kV Bongaigaon-Killing line	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 : January'20	
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	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/PPs	27	27	17739	11795
	<b>Total NR</b>	<b>51144</b>	<b>44520</b>	<b>39053</b>	<b>32706</b>
II	<b>EASTERN REGION</b>				
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/PPs	-178	-347	12627	9543
	<b>Total ER</b>	<b>19596</b>	<b>16440</b>	<b>26244</b>	<b>20344</b>
III	<b>WESTERN REGION</b>				
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/PPs	5331	4036	43289	31372
	<b>Total WR</b>	<b>56660</b>	<b>40129</b>	<b>74740</b>	<b>56677</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	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