

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

Issue Date: 28th March 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 July 2019 to 31st July 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st July 2019 to 31st July 2019	00-24	13250	500	12750	9485	3265		
			12300**		11800**	8535**	3265**		
NR-ER*	1st July 2019 to 31st July 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st July 2019 to 31st July 2019	00-24	5250	300	4950	3979	971		
W3-ER	1st July 2019 to 31st July 2019	00-24	No limit is being specified.						
ER-W3	1st July 2019 to 31st July 2019	00-24	No limit is being specified.						
WR-SR	1st July 2019 to 31st July 2019	00-05	5550	500	5050	4435	615		
		05-22	5550		5050		615		
		22-24	5550		5050		615		
SR-WR *	1st July 2019 to 31st July 2019	00-24	No limit is being Specified.						
ER-SR	1st July 2019 to 31st July 2019	00-06	4950	250	4700	2762	1938		
		06-18				2847	1853		
		18-24				2762	1938		
SR-ER *	1st July 2019 to 31st July 2019	00-24	No limit is being Specified.						

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ER-NER	1st July 2019 to 31st July 2019	00-17	1010	45	965	265	700		
		17-23	1080		1035		770		
		23-24	1010		965		700		
NER-ER	1st July 2019 to 31st July 2019	00-17	2220	45	2175	0	2175		
		17-23	2460		2415		2415		
		23-24	2220		2175		2175		

<b>W3 zone Injection</b>	1st July 2019 to 31st July 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 Raikhedra, 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 July 2019 to 31st July 2019	00-06	17650 16700**	800	16850 15900**	13464 12514**	3386 3386**		
		06-17	18900 17950**		18100 17150**		4636 4636**		
		17-24	17000 16050**		16200 15250**		2736 2736**		
<b>NER</b>	1st July 2019 to 31st July 2019	00-17	1010	45	965	265	700		
		17-23	1080		1035		770		
		23-24	1010		965		700		
<b>WR</b>									
<b>SR</b>	1st July 2019 to 31st July 2019	00-06	10500	750	9750	7197	2553		
		06-18	10500		9750	7282	2468		
		18-24	10500		9750	7197	2553		

\* 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 July 2019 to 31st July 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st July 2019 to 31st July 2019	00-17	2700	45	2655	0	2655		
		17-23	2890		2845				
		23-24	2700		2655				
WR									
SR *	1st July 2019 to 31st July 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
WR-NR	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-0
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0
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
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
	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
ER-NER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0
W3 zone Injection	---	Rev-0

### 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 n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
SR	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT
		Low Voltage at Gazuwaka (East) Bus.

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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 : July'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	10250	11742	4780	4800
2	Haryana	8317	8028	1804	1804
3	Rajasthan	11243	9679	7787	7799
4	Delhi	6320	6125	860	860
5	Uttar Pradesh	17229	17131	8644	8621
6	Uttarakhand	2195	1882	993	833
7	Himachal Pradesh	1609	1345	815	808
8	Jammu & Kashmir	3046	1923	1302	1301
9	Chandigarh	351	259	0	0
10	ISGS/PPs	29	29	21398	19959
	<b>Total NR</b>	<b>60589</b>	<b>58143</b>	<b>48383</b>	<b>46785</b>
II	<b>EASTERN REGION</b>				
1	Bihar	4612	3116	208	168
2	Jharkhand	1369	849	389	274
3	Damodar Valley Corporation	2913	2723	5367	3690
4	Orissa	4405	3408	3020	1952
5	West Bengal	8931	5741	6226	4208
6	Sikkim	105	89	0	0
7	Bhutan	198	195	1048	1097
8	ISGS/PPs	294	605	11522	9561
	<b>Total ER</b>	<b>23135</b>	<b>16726</b>	<b>28250</b>	<b>20952</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	16519	12329	11941	9637
2	Gujarat	13991	11043	10010	8186
3	Madhya Pradesh	8143	6183	4045	3434
4	Chattisgarh	3926	2901	2690	2080
5	Daman and Diu	320	292	0	0
6	Dadra and Nagar Haveli	744	731	0	0
7	Goa-WR	536	329	0	0
8	ISGS/PPs	4397	2734	40908	20998
	<b>Total WR</b>	<b>47538</b>	<b>36543</b>	<b>55273</b>	<b>44335</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	8521	7712	6363	4357
2	Telangana	10865	9259	4607	4340
3	Karnataka	10097	4946	8740	4462
4	Tamil Nadu	15419	13443	8712	6913
5	Kerala	3666	2175	1458	381
6	Pondy	359	354	0	0
7	Goa-SR	70	69	0	0
8	ISGS/IPPs	0	0	13977	12028
	Total SR	48998	37958	43402	32481
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	134	62	0	0
2	Assam	1808	1295	255	192
3	Manipur	178	83	0	0
4	Meghalaya	284	206	301	214
5	Mizoram	101	68	66	33
6	Nagaland	127	83	21	12
7	Tripura	252	149	80	80
8	ISGS/IPPs		99		2352
	Total NER	3044	2046	3150	2883
	Total All India	184769	152866	191199	157257