

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

Issue Date: 28th April 2019

Issue Time: 1600 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 August 2019 to 31st August 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st August 2019 to 31st August 2019	00-24	13250	500	12750	9842	2908		
			12300**		11800**	8892**	2908**		
NR-ER*	1st August 2019 to 31st August 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st August 2019 to 31st August 2019	00-24	5250	300	4950	3979	971		
W3-ER	1st August 2019 to 31st August 2019	00-24	No limit is being specified.						
ER-W3	1st August 2019 to 31st August 2019	00-24	No limit is being specified.						
WR-SR	1st August 2019 to 31st August 2019	00-05	5550	500	5050	4213	837		
		05-22	5550		5050		837		
		22-24	5550		5050		837		
SR-WR *	1st August 2019 to 31st August 2019	00-24	No limit is being Specified.						
ER-SR	1st August 2019 to 31st August 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		
SR-ER *	1st August 2019 to 31st August 2019	00-24	No limit is being Specified.						

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ER-NER	1st August 2019 to 31st August 2019	00-17	1030	45	985	267	718		
		17-23	1040		995		728		
		23-24	1030		985		718		
NER-ER	1st August 2019 to 31st August 2019	00-17	2200	45	2155	0	2155		
		17-23	1960		1915		1915		
		23-24	2200		2155		2155		

<b>W3 zone Injection</b>	1st August 2019 to 31st August 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 August 2019 to 31st August 2019	00-06	17650 16700**	800	16850 15900**	13821 12871**	3029 3029**		
		06-17	18900 17950**		18100 17150**		4279 4279**		
		17-24	17000 16050**		16200 15250**		2379 2379**		
<b>NER</b>	1st August 2019 to 31st August 2019	00-17	1030	45	985	267	718		
		17-23	1040		995		728		
		23-24	1030		985		718		
<b>WR</b>									
<b>SR</b>	1st August 2019 to 31st August 2019	00-06	10500	750	9750	6961	2789		
		06-18	10500		9750	7046	2704		
		18-24	10500		9750	6961	2789		

\* 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 August 2019 to 31st August 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24			3800	388	3412		
<b>NER</b>	1st August 2019 to 31st August 2019	00-17	2200	45	2155	0	2155		
		17-23	1960		1915				
		23-24	2200		2155		2155		
<b>WR</b>									
<b>SR *</b>	1st August 2019 to 31st August 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
<b>WR-NR</b>	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	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, 2x315 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, 2x315 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 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	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, 2x315 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, 2x315 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 : August'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	11409	10282	5311	5317
2	Haryana	8551	7937	2055	2055
3	Rajasthan	12256	12733	7743	7779
4	Delhi	6144	6014	860	860
5	Uttar Pradesh	16521	15725	8770	8628
6	Uttarakhand	2128	1660	1011	1005
7	Himachal Pradesh	1587	1221	768	841
8	Jammu & Kashmir	2927	1813	1295	1287
9	Chandigarh	360	291	0	0
10	ISGS/IPPs	29	29	21398	19959
	Total NR	61911	57704	49858	47448
II	EASTERN REGION				
1	Bihar	4736	3196	218	168
2	Jharkhand	1378	894	409	324
3	Damodar Valley Corporation	2890	2691	5347	3710
4	Orissa	4573	3315	3426	2135
5	West Bengal	8876	6235	6226	4638
6	Sikkim	104	87	0	0
7	Bhutan	196	192	1502	1539
8	ISGS/IPPs	294	605	11522	9561
	Total ER	23383	17242	28816	21910
III	WESTERN REGION				
1	Maharashtra	16686	11635	12358	9454
2	Gujarat	14784	11264	10889	7970
3	Madhya Pradesh	8449	6463	4565	4738
4	Chattisgarh	4202	3260	2690	2531
5	Daman and Diu	312	303	0	0
6	Dadra and Nagar Haveli	788	739	0	0
7	Goa-WR	443	311	0	0
8	ISGS/IPPs	4397	2734	40908	20998
	Total WR	50106	37736	67270	52246

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	7635	7789	6331	4357
2	Telangana	11672	10096	5436	4458
3	Karnataka	7975	4875	7027	4462
4	Tamil Nadu	15150	13043	8157	6258
5	Kerala	3688	2142	1549	423
6	Pondy	358	344	0	0
7	Goa-SR	70	67	0	0
8	ISGS/IPPs	0	0	13977	12028
	Total SR	46549	38357	41069	31986
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	129	69	0	0
2	Assam	1715	1276	255	192
3	Manipur	184	88	0	0
4	Meghalaya	280	206	272	246
5	Mizoram	101	67	62	44
6	Nagaland	130	133	22	6
7	Tripura	254	161	75	75
8	ISGS/IPPs		99		2352
	Total NER	2962	2087	3067	2858
	Total All India	184769	152866	191199	157257