

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

Issue Date: 14th September 2019

Issue Time: 1200 hrs

Revision No. 8

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 September 2019 to 2nd September 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
	3rd September 2019 to 30th September 2019	00-06	2500	500	2000	771	1229		
		06-18				826	1174		
		18-24				771	1229		
WR-NR*	1st September 2019 to 05th September 2019	00-24	13500	500	13000	10067	2933		Revised considering Load Generation balance and HVDC set points as per present system conditions
			12550**		12050**	9117**	2933**		
	06th September 2019	00-830	13500	500	13000	10067	2933		
		830-24	11300		10800	10067	733		
			10350**	9850**	9117**	733**			
	07th September 2019 to 13th September 2019	00-24'	11300	500	10800	10067	733		
		10350**	9850**	9117**	733**				
14th September 2019 to 20th September 2019	00-24'	12400	500	11900	10067	1833	1100		
		11450**	10950**	9117**	1833**				
21st September 2019 to 30th September 2019	00-24	14900	500	14400	10067	4333	1400		
		13950**	13450**	9117**	4333**				
NR-ER*	1st September 2019 to 30th September 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st September 2019 to 5th September 2019	00-24	5250	300	4950	4044	906		
	6th September 2019 to 30th September 2019	00-24	5250	300	4950	4050	900		
W3-ER	1st September 2019 to 30th September 2019	00-24	No limit is being specified.						
ER-W3	1st September 2019 to 30th September 2019	00-24	No limit is being specified.						
WR-SR	1st September 2019 to 2nd September 2019	00-05	5550	500	5050	3888	1162		
		05-22	5550		5050		1162		
		22-24	5550		5050		1162		
	3rd September 2019 to 30th September 2019	00-05	5550	500	5050	4888	162		
		05-22	5550		5050		162		
		22-24	5550		5050		162		
SR-WR *	1st September 2019 to 30th September 2019	00-24	No limit is being Specified.						
ER-SR	1st September 2019 to 30th September 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		

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<b>SR-ER *</b>	1st September 2019 to 30th September 2019	00-24	No limit is being Specified.							
<b>ER-NER</b>	1st September 2019 to 11th September 2019	00-17	1090	45	1045	310	735			
		17-23	970		925		615			
		23-24	1090		1045		735			
	12th September 2019 to 13th September 2019	00-07'	1090	45	1045	310	735			
		07-17'	960		915		605			
		17-23	870		825		515			
		23-24	960		915		605			
	14th September 2019 to 30th September 2019	00-17	1090	45	1045	310	735			
		17-23	970		925		615			
		23-24	1090		1045		735			
	<b>NER-ER</b>	1st September 2019 to 11th September 2019	00-17	2870	45	2825	0	2825		
			17-23	2845		2800		2800		
23-24			2870	2825		2825				
12th September 2019 to 13th September 2019		00-07'	2870	45	2825	0	2825			
		07-17'	2550		2505		2505			
		17-23	2450		2405		2405			
		23-24	2550		2505		2505			
14th September 2019 to 30th September 2019		00-17	2870	45	2825	0	2825			
		17-23	2845		2800		2800			
		23-24	2870		2825		2825			
<b>W3 zone Injection</b>		1st September 2019 to 30th September 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 - Vindhyaachal 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) KWPC, 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 September 2019 to 05th September 2019	00-06	18500	800	17700	14111	3589		
			17550**		16750**		3589**		
		06-09	19850		19050		4939		
			18900**		18100**		4939**		
		09-17	18500		17700		3589		
			17550**		16750**		3589**		
		17-24	18000		17200		3089		
			17050**		16250**		3089**		
	06th September 2019	00-06	18500	800	17700	14117	3583		
			17550**		16750**		3583**		
		06-830	19850		19050		4933		
			18900**		18100**		4933**		
		830-09	16600		15800		1683		
			15650**		14850**		1683**		
		09-17	15500		14700		583		
			14550**		13750**		583**		
	17-24	15050	14250	133					
		14100**	13300**	133**					
	07th September 2019 to 13th September 2019	00-06	15500	800	14700	14117	583		
			14550**		13750**		583**		
		06-09	16600		15800		1683		
			15650**		14850**		1683**		
		09-17	15500		14700		583		
			14550**		13750**		583**		
17-24		15050	14250		133				
		14100**	13300**		133**				

	14th September 2019 to 20th September 2019	00-06	17000	800	16200	14117 13167**	2083	1500	Revised considering Load Generation balance and HVDC set points as per present system conditions	
			16050**		15250**		2083**			
		06-09	18250		17450		3333	1650		
			17300**		16500**		3333**			
	09-17	17000	16200	2083	1500					
		16050**	15250**	2083**						
	17-24	16550	15750	1633	1500					
		15600**	14800**	1633**						
<b>NR</b>	21st September 2019 to 30th September 2019	00-06	20400	800	19600	14117 13167**	5483	1900	Revised considering Load Generation balance and HVDC set points as per present system conditions	
			19450**		18650**		5483**			
		06-09	21900		21100		6983	2050		
			20950**		20150**		6983**			
09-17	20400	19600	5483	1900						
	19450**	18650**	5483**							
17-24	19850	19050	4933	1850						
	18900**	18100**	4933**							
<b>NER</b>	1st September 2019 to 11th September 2019	00-17	1090	45	1045	310	735			
			17-23		970		925			615
			23-24		1090		1045			735
	12th September 2019 to 13th September 2019	00-07'	1090	45	1045	310	735			
			07-17'		960		915			605
			17-23		870		825			515
			23-24		960		915			605
	14th September 2019 to 30th September 2019	00-17	1090	45	1045	310	735			
			17-23		970		925			615
23-24			1090		1045		735			

WR									
SR	1st September 2019 to 2nd September 2019	00-06	10500	750	9750	6636	3114		
		06-18	10500		9750	6721	3029		
		18-24	10500		9750	6636	3114		
	3rd September 2019 to 30th September 2019	00-06	10500	750	9750	7636	2114		
		06-18	10500		9750	7721	2029		
		18-24	10500		9750	7636	2114		

\* 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 September 2019 to 2nd September 2019	00-06	4500	700	3800	388	3412					
		06-18			3800	553	3247					
		18-24	4500		3800	388	3412					
	3rd September 2019 to 30th September 2019	00-06	4500	700	3800	964	2836					
		06-18			3800	1129	2671					
		18-24	4500		3800	964	2836					
NER	1st September 2019 to 11th September 2019	00-17	2870	45	2825	0	2825					
		17-23	2845		2800		2800					
		23-24	2870		2825		2825					
	12th September 2019 to 13th September 2019	00-07'	2870	45	2825	0	2825					
		07-17'	2550		2505		2505					
		17-23	2450		2405		2405					
		23-24	2550		2505		2505					
	14th September 2019 to 30th September 2019	00-17	2870	45	2825	0	2825					
		17-23	2845		2800		2800					
		23-24	2870		2825		2825					
	WR											
SR *	1st September 2019 to 30th September 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
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak	Rev-0 to 8
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 8
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
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 to 8
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 to 8
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 8
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8
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 to 3
	a) N-1 contingency of 400 kV Bongaigaon- Azara line b) High Loading of 220 kV Salakati-BTPS D/C(200 MW)	Rev - 4 to 8
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 to 3
	a) N-1 contingency of 400 kV Silchar-Azara line b) High Loading of 400 kV Killing-Bongaigaon line.	Rev - 4 to 8
W3 zone Injection	---	Rev-0 to 8

### 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	Rev-0 to 8
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 8
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 8
		(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)	Rev-0 to 3
		a) N-1 contingency of 400 kV Bongaigaon- Azara line b) High Loading of 220 kV Salakati-BTPS D/C(200 MW)	Rev-04 to 8
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 3
		a) N-1 contingency of 400 kV Silchar-Azara line b) High Loading of 400 kV Killing-Bongaigaon line.	Rev-04 to 6
SR	Import	a) N-1 contingency of 400 kV Silchar-Azara line b) High Loading of 220kV Sonabil-Samaguri S/C	Rev-7 to 8
		n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 8
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 8
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8

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

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	25th June 2019	Whole Month	Revised STOA margin due to: (a) Revision in MTOA quantum from KSK to Andhra Pradesh from 340 MW to 38.5 MW	WR-SR/Import of SR
2	28th June 2019	Whole Month	a) Change in Load Generation Balance in NER b) Operationalization of 30 MW LTA from Green Infra Wind Energy Ltd. (GIWEL-Bhuj) to Assam.	ER-NER/NER-ER/Import and Export of NER
			a) Revision in LTA quantum from RPL-SECI-II (RE) to Punjab from 23.2 MW to 41.6 MW. b) Revision in LTA quantum from RPL-SECI-II (RE) to UP from 23.2 MW to 41.6 MW.	WR-NR/Import of NR
3	28th July 2019	Whole Month	A) Revision in TTC/ATC due to commissioning of 765 kV Banaskantha – Chittorgarh – Ajmer – Bikaner corridor.  B) Revised STOA margin due to the following:- a) Revision in LTA quantum from RPL-SECI-II to Punjab- from 41.6 MW to 47.2 MW b) Revision in LTA quantum from RPL-SECI-II to UPPCL- from 41.6 MW to 47.2 MW c) Revision in LTA quantum from MAHINDRA RUMS to DMRC- from 7.75 MW to 7.8 MW d) Operationalization of 49 MW MTOA from GIWEL-SECI-III to Punjab e) Revision in LTA quantum from KSK Mahanadi to UPPCL from 820 MW to 1000 MW	WR-NR/Import of NR
			Revision in LTA quantum from KSK Mahanadi to TN from 440 MW to 500 MW	WR-SR/Import of SR
4	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
			Revision in TTC/ACT due to the following:- a) Change in Load Generation Balance in NER b) Charging of new elements (400/220 kV, 500 MVA ICT -3 at Misa , 220 kV Rangia - BTPS D/C and 220/132 kV, 2X100 MVA ICT at Rangia)	ER-NER/NER-ER/Import and Export of NER
5	2nd September 2019	3rd Sep to 30th Sep 2019	Revised STOA margin due to the reallocation of 575.8 MW Dadri stg-II Power to Andhra Pradesh	NR-WR/NR EXPORT
			Revised STOA margin due to the reallocation of Dadri stag-II (575.8 MW) & Mauda stg-I (212.6 MW) & Mauda stg-II (211.6 MW) Power to Andhra Pradesh	WR-SR/SR IMPORT
6	05th September 2019	06th Sep to 20th Sep 2019	Revised due to shutdown of 765kV Agra-Jhatikara line on continuous basis	WR-NR/Import of NR
		06th Sep to 30th Sep 2019	Revised STOA Margin due to allocation of additional 6 MW from Nabinagar STPP to Uttar Pradesh	ER-NR/Import of NR
7	10th September 2019	12th Sep 2019 to 13th Sep 2019	Revised due to shutdown of 400 kV Bongaigaon - Byrnihat Line.	ER-NER/NER-ER/Import and Export of NER
8	13th September 2019	14th Sep 2019 to 30th Sep 2019	Revised considering Load Generation balance and HVDC set points as per present system conditions	WR-NR/Import of NR



ASSUMPTIONS IN BASECASE					
				Month : September'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	9698	9517	4169	4168
2	Haryana	7972	7269	1804	1804
3	Rajasthan	10912	11558	6950	6950
4	Delhi	5804	5003	819	819
5	Uttar Pradesh	15592	16146	8351	8194
6	Uttarakhand	2247	2285	1153	1156
7	Himachal Pradesh	1576	1359	849	822
8	Jammu & Kashmir	2978	2206	1222	1208
9	Chandigarh	340	244	0	0
10	ISGS/PPs	29	29	20822	19096
	<b>Total NR</b>	<b>57149</b>	<b>55616</b>	<b>46139</b>	<b>44217</b>
II	<b>EASTERN REGION</b>				
1	Bihar	4676	3241	218	168
2	Jharkhand	1360	907	409	324
3	Damodar Valley Corporation	2853	2730	5347	3710
4	Orissa	4514	3363	3406	2135
5	West Bengal	8786	6299	6226	4638
6	Sikkim	103	89	0	0
7	Bhutan	194	194	1502	1539
8	ISGS/PPs	631	605	11689	9561
	<b>Total ER</b>	<b>23118</b>	<b>17453</b>	<b>28796</b>	<b>21910</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	17370	16627	10888	11545
2	Gujarat	16587	14271	10858	9773
3	Madhya Pradesh	9501	8249	5768	4775
4	Chattisgarh	3772	4127	2089	2089
5	Daman and Diu	275	307	0	0
6	Dadra and Nagar Haveli	793	759	0	0
7	Goa-WR	485	339	0	0
8	ISGS/PPs	4571	2734	38745	20998
	<b>Total WR</b>	<b>53353</b>	<b>49331</b>	<b>68347</b>	<b>65187</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	8270	7937	6301	5003
2	Telangana	12455	10424	5600	4761
3	Karnataka	8368	4847	7464	4462
4	Tamil Nadu	14955	12787	9108	6612
5	Kerala	3739	2370	1556	406
6	Pondy	352	340	0	0
7	Goa-SR	69	67	0	0
8	ISGS/IPPs	0	0	13625	12028
	Total SR	48209	38772	43654	33272
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	141	65	0	0
2	Assam	1641	1363	255	192
3	Manipur	187	92	0	0
4	Meghalaya	275	208	259	233
5	Mizoram	99	68	56	40
6	Nagaland	128	82	22	12
7	Tripura	237	178	73	75
8	ISGS/IPPs	156	99	2307	2352
	Total NER	2864	2153	2972	2833
	Total All India	184692	163325	189908	167418