# National Load Despatch Centre Total Transfer Capability for September 2018

Issue Date: 1st August 2018 Issue Time: 1600 hrs Revision No. 1

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	
	1st September	00-06				100	1900		Revised STOA margins due to: (a) 40 MW allocation to MP from	
NR-WR*	2018 to 30th	06-18	2500	500	2000	250	1750		NR ISGS	
	September 2018	18-24				100	1900		(b) 100 MW allocation to Chattisgarh from Kishanganga NR	
WR-NR*	1st September 2018 to 30th September 2018	00-24	12000 11050**	500	11500 10550**	9034 8084**	2466 2466**	-250	Revised due to: (a) Frequent outage of Champa Kurukshetra single pole and (b) Restoration of power order on HVDC Mundra-Mahindragarh due to revival of generation at APL and CGPL plants. (c) Change in STOA margin due to change in LTA/MTOA	
	1st September	00-06	2000		1800	193	1607			
NR-ER*	2018 to 30th	06-18	2000	200	1800	303	1497			
ER-NR*	1st September 2018 2018 to 30th September 2018	00-24	2000 5250	300	1800 4950	193 3867	1607 1083		Revised STOA margins due to change in LTA/MTOA	
W3-ER	1st September 2018 to 30th September 2018	00-24	No limit is being specified.							
ER-W3	1st September 2018 to 30th September 2018	00-24				No limit i	s being specified.			
	1.4.0	00-05	5150		4650		115			
WR-SR	2018 to 30th	1st september	4650	4535	115		Revised STOA margin due to change in			
	September 2018	22-24	5150		4650		115		allocation to Telangana from WR plants	
SR-WR*	1st September 2018 to 30th September 2018	00-24				No limit is	s being Specified.	1		
	1st September	00-06				2762	1338		Revised STOA margins due to	
ER-SR	2018 to 30th	06-18	4350	250	4100	2847	1253		revocation of 500 MW LTA from	
	September 2018	18-24				2762	1338		Ind-bharat	
SR-ER*	1st September 2018 to 30th September 2018	00-24	No limit is being Specified.							
ER-NER	1st September 2018 to 30th September 2018	00-17 17-23 23-24	1240 1170 1240	45	1195 1125 1195	225	970 900 970	-		
NER-ER	1st September 2018 to 30th September 2018	00-17 17-23 23-24	1740 1830 1740	45	1695 1785 1695	0	1695 1785 1695			

#### National Load Despatch Centre Total Transfer Capability for September 2018

Issue Date: 1st August 2018 Issue Time: 1600 hrs Revision No. 1

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
W3 zone Injection	1 701X to 30th 1 00-74 TNo limit is being specified (In case of any constraints appearing in the system W 3 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.

- 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) KWPCL, 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 commissionned 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.

<sup>\*</sup> 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).

<sup>\*\*</sup>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.

#### **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
ER									
		00-18	17100		16300		3399	-400	Revised due to: (a) Frequent outage of
			16150**		15350**		3399**	100	Champa Kurukshetra single pole and
NR	1st September 2018 to 30th	18-23	15400	800	14600	12901	1699	-300	(b) Restoration of power order on HVDC Mundra-
INK	September 2018		14450**	800	13650**	11951**	1699**	-300	Mahindragarh due to revival of generation at
		22.24	17100		16300		3399	400	APL and CGPL plants. (c) Change in STOA
		23-24	16150**		15350**		3399**	-400	margin due to change in MTOA
	1st September	00-17	1240		1195		970		
NER	2018 to 30th	17-23	1170	45	1125	225	900		
	September 2018	23-24	1240		1195		970		
WR									
		00-05	9500		8750	7297	1453		Revised STOA margins
	1st September	05-06	9500		8750	7297	1453		due to:
SR	2018 to 30th	06-18	9500	750	8750	7382	1368		(a) Change in LTA/MTOA towards ER-SR corridor
	September 2018	18-22	9500		8750	7297	1453		(b) Change in allocation to
		22-24	9500		8750	7297	1453		Telangana from WR plants

<sup>\*</sup> 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).

Margin in Simultaneous import of NR = A

WR-NR ATC = BER-NR ATC = C

Margin for WR-NR applicants = A \* B/(B+C)

Margin for ER-NR Applicants = A \* C/(B+C)

<sup>\*\*</sup>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.

<sup>\*</sup> 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:

#### **Simultaneous Export Capability**

Corridor		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
NIDY	1st September	00-06	4500	700	3800	248	3552		
NR*	2018 to 30th September 2018	06-18 18-24	4500	700	3800 3800	368 248	3432 3552		
	1st September	00-17	1740		1695	240	1695		
NER	2018 to 30th	17-23	1830	45	1785	0	1785		
INEK	September 2018		1740	73	1695		1695		
WR	Beptember 2010	25 24	1740		1033		1073		
SR *	1st September 2018 to 30th September 2018	00-24		No limit is being Specified.					

<sup>\*</sup> 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)**

		<b>Applicable Revisions</b>
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-1
WR-NR	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.  High loading of 400 kV Bhachau-Versana D/C line	Rev- 0 Rev-1
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-1
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-1
WR-SR and ER-	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-1
SR	Low Voltage at Gazuwaka (East) Bus.	Rev-1
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-1
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-1
W3 zone Injection		Rev-1

## **Limiting Constraints (Simultaneous)**

			<b>Applicable Revisions</b>
	Import	<ol> <li>N-1 contingencies of 400 kv Mejia-Maithon A S/c</li> <li>N-1 contingencies of 400 kv Kahalgaon-Banka S/c</li> <li>N-1 contingencies of 400kV MPL- Maithon S/c</li> </ol>	Rev-1
NR		(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.  High loading of 400 kV Bhachau-Versana D/C line	Rev-1 Rev-1
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev-1
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-1
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-1
SR	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-1
		Low Voltage at Gazuwaka (East) Bus.	Rev-1

# National Load Despatch Centre Total Transfer Capability for September 2018

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
0	28th May 2018	Whole Month	TTC declared considering restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra	WR-NR / Import of NR
			Revised STOA margins due to: (a) 40 MW allocation to MP from NR ISGS (b) 100 MW allocation to Chattisgarh from Kishanganga NR	NR-WR
1	1st Aug 2018	Whole Month	Revised due to: (a) Frequent outage of Champa Kurukshetra single pole and (b) Restoration of power order on HVDC Mundra- Mahindragarh due to revival of generation at APL and CGPL plants. (c) Change in STOA margin due to change in LTA/MTOA	WR-NR / Import of NR
			Revised STOA margins due to change in LTA/MTOA	ER-NR
			Revised STOA margins due to: (a) Change in LTA/MTOA towards ER-SR corridor (b) Change in allocation to Telangana from WR plants	ER-SR /WR- SR/ Import of SR

ASSUM	IPTIONS IN BASECASE				
			N	onth: September	18
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	10474	9326	5458	5426
2	Haryana	8627	7492	2765	2445
3	Rajasthan	9370	9169	5305	5784
4	Delhi	5806	5589	1075	1099
5	Uttar Pradesh	15893	14651	9512	9412
6	Uttarakhand	2117	1848	1083	1145
7	Himachal Pradesh	1503	1203	1107	883
8	Jammu & Kashmir	2799	1692	1514	785
9	Chandigarh	344	220	0	0
10	ISGS/IPPs	24	24	20279	15055
	Total NR	56958	51211	48099	42035
П	EASTERN REGION				
1	Bihar	4087	2852	310	200
2	Jharkhand	1171	873	364	225
3	Damodar Valley Corporation	2925	2668	5264	4225
4	Orissa	4009	3194	2539	2192
5	West Bengal	8603	5717	5360	4272
6	Sikkim	84	84	0	0
7	Bhutan	212	218	1592	1526
8	ISGS/IPPs	265	259	11202	8824
	Total ER	21357	15866	26631	21464
Ш	WESTERN REGION				
1	Maharashtra	16834	13516	11885	9571
2	Gujarat	14542	13186	7379	7074
3	Madhya Pradesh	9729	7523	4011	3862
4	Chattisgarh	4171	3477	2999	2383
5	Daman and Diu	333	295	0	0
6	Dadra and Nagar Haveli	804	728	0	0
7	Goa-WR	516	373	0	0
8	ISGS/IPPs	4170	3476	39160	31931
	Total WR	51098	42575	65434	54821

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	8103	6984	5903	3947
2	Telangana	8305	8102	4447	4177
3	Karnataka	9352	5764	6477	4630
4	Tamil Nadu	14096	12115	8411	7493
5	Kerala	3673	2434	1564	283
6	Pondy	373	371	0	0
7	Goa-SR	84	84	0	0
8	ISGS/IPPs	0	0	11055	9542
	Total SR	43986	35853	37857	30072
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	74	0	0
2	Assam	1318	1292	307	196
3	Manipur	171	95	0	0
4	Meghalaya	267	194	313	214
5	Mizoram	99	68	8	8
6	Nagaland	129	78	22	12
7	Tripura	205	117	61	59
8	ISGS/IPPs	159	131	1963	1784
	Total NER	2471	2049	2674	2273
	Total All India	176311	147947	182392	152286