

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

Issue Date: 11th September 2018

Issue Time: 1300 hrs

Revision No. 5

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 2018 to 30th September 2018	00-06	2500	500	2000	195	1805			
		06-18				250	1750			
		18-24				195	1805			
WR-NR*	1st September 2018 to 30th September 2018	00-24	12250	500	11750	9085	2665			
			11300**		10800**	8135**	2665**			
NR-ER*	1st September 2018 to 30th September 2018	00-06	2000	200	1800	193	1607			
		06-18	2000		1800	303	1497			
		18-24	2000		1800	193	1607			
ER-NR*	1st September 2018 to 30th September 2018	00-24	5250	300	4950	3867	1083			
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 is being specified.							
WR-SR	1st September 2018 to 30th September 2018	00-05	5150	500	4650	4535	115			
		05-22	5150		4650		115			
		22-24	5150		4650		115			
SR-WR *	1st September 2018 to 30th September 2018	00-24	No limit is being Specified.							
ER-SR	1st September 2018	00-06	4350	250	4100	2762	1338			
		06-18				2847	1253			
		18-24				2762	1338			
	2nd September 2018 and 3rd September 2018	00-06	4350	250	4100	2762	1338			
		06-830	4350		4100	2847	1253			
		830-18	3350		3100	2847	253			
		18-24	3350		3100	2762	338			
	4th September 2018 to 30th September 2018	00-06	4350	250	4100	2762	1338			
		06-18				2847	1253			
		18-24				2762	1338			
	SR-ER *	1st September 2018 to 30th September 2018	00-24	No limit is being Specified.						

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ER-NER	1st September 2018 to 10th September 2018	00-17	1350	45	1305	225	1080			
		17-23	1280		1235		1010			
		23-24	1350		1305		1080			
	11th September 2018	00-08	1240	45	1195	225	970			
		08-17	900		855		630			
		17-23	840		795		570			
		23-24	900		855		630			
	12th September 2018 to 30th September 2018	00-17	1240	45	1195	225	970		Revised due non availing Shutdown of Misa 3x105 MVA ICT 1	
		17-23	1170		1125		900			
		23-24	1240		1195		970			
	NER-ER	1st September 2018 to 10th September 2018	00-17	1640	45	1595	0	1595		
			17-23	1780		1735		1735		
23-24			1640	1595		1595				
11th September 2018		00-08	1740	45	1695	0	1695			
		08-17	1250		1205		1205			
		17-23	1370		1325		1325			
		23-24	1250		1205		1205			
12th September 2018 to 30th September 2018		00-17	1740	45	1695	0	1695		Revised due non availing Shutdown of Misa 3x105 MVA ICT 1	
		17-23	1830		1785		1785			
		23-24	1740		1695		1695			
W3 zone Injection		1st September 2018 to 30th September 2018	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 - Vindhyaal 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.

SR	1st September 2018	00-05	9500	750	8750	7297	1453	
		05-06	9500		8750	7297	1453	
		06-18	9500		8750	7382	1368	
		18-22	9500		8750	7297	1453	
		22-24	9500		8750	7297	1453	
	2nd September 2018 and 03rd September 2018	00-05	9500	750	8750	7297	1453	
		05-06	9500		8750	7297	1453	
		06-830	9500		8750	7382	1368	
		830-18	8500		7750	7382	368	
		18-22	8500		7750	7297	453	
		22-24	8500		7750	7297	453	
	4th September 2018 to 30th September 2018	00-05	9500	750	8750	7297	1453	
		05-06	9500		8750	7297	1453	
		06-18	9500		8750	7382	1368	
		18-22	9500		8750	7297	1453	
22-24		9500	8750		7297	1453		

* 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 2018 to 30th September 2018	00-06	4500	700	3800	388	3412			
		06-18			3800	553	3247			
		18-24			3800	388	3412			
NER	1st September 2018 to 10th September 2018	00-17	1640	45	1595	0	1595			
		17-23	1780		1735		1735			
		23-24	1640		1595		1595			
	11th September 2018	00-08	1740	45	1695	0	1695			
		08-17	1250		1205		1205			
		17-23	1370		1325		1325			
		23-24	1250		1205		1205			
	12th September 2018 to 30th September 2018	00-17	1740	45	1695	0	1695		Revised due non availing Shutdown of Misa 3x105 MVA ICT 1	
		17-23	1830		1785		1785			
		23-24	1740		1695		1695			
	WR									
SR *	1st September 2018 to 30th September 2018	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 Badod-Modak	Rev-0 to 5
WR-NR		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 5
		Frequent outage of Champa Kurukshetra poles	Rev- 2-5
NR-ER		(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
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 5
WR-SR and ER-SR		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
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 5
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 5
W3 zone Injection		---	Rev-0 to 5

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 5
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida. Frequent outage of Champa Kurukshetra poles	Rev-0 to 5 Rev- 2-5
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 5
		(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
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 5
	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 5
SR	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5

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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
1	1st Aug 2018	Whole Month	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
			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
2	31st Aug 2018	1st September to 10th September	Revised due to continuous shutdown of Palatana Module 2 (GTG+STG)	ER-NER/NER-ER/Import/Export of NER
		Whole Month	Revised STOA margins due to change in LTA/MTOA	NR-WR/ER-NR/Import/Export of NR
		Whole Month	Revised due to change in load generation balance and network conditions and change in pattern of inter-regional flow towards NR	WR-NR/Import of NR
3	01st Sept 2018	2nd September and 3rd September	Revised due to shutdown of 400kV Bus -III and IV at Talcher respectively	ER-SR / Import of SR
4	10th Sept 2018	11th September and 12th September	Revised due to day Time Shutdown of Misa 3x105 MVA ICT 1	ER-NER/NER-ER/Import/Export of NER
5	11th Sept 2018	12th Sept 2018	Revised due non availing Shutdown of Misa 3x105 MVA ICT 1	ER-NER/NER-ER/Import/Export of NER

ASSUMPTIONS IN BASECASE					
				Month : 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
II	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
III	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