

National Load Despatch Centre
Total Transfer Capability for August 2018

Issue Date: 07th August 2018

Issue Time: 1030 hrs

Revision No. 4

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 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
NR-WR*	2nd August 2018 to 31st August 2018	00-06	2500	500	2000	240	1760		
		06-18				250	1750		
		18-24				240	1760		
WR-NR*	1st August 2018	00-24	12000 11050**	500	11500 10550**	9127 8177**	2373 2373**		
	2nd August 2018 to 31st August 2018	00-24	12000 11050**	500	11500 10550**	9034 8084**	2466 2466**		
NR-ER*	1st August 2018 to 31st August 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st August 2018 to 31st August 2018	00-24	5250	300	4950	3867	1083		
W3-ER	1st August 2018 to 31st August 2018	00-24	No limit is being specified.						
ER-W3	1st August 2018 to 31st August 2018	00-24	No limit is being specified.						
WR-SR	1st August 2018	00-24	5150	500	4650	4515	135		
	2nd August 2018	00-0930	5150	500	4650	4535	115		
		0930-18	4950		4450		0		
		18-24	5150		4650		115		
	3rd August 2018 to 07th Aug 2018	00-24	5150	500	4650	4535	115		
	08th August 2018	00-930	5150	500	4650	4535	115		Revised due to shutdown of 765/400kV ICT # 2 at Maheshwaram
		0930-18	4950	500	4450	4535	0	-200	
18-24		5150	500	4650	4535	115			
9th August 2018 to 31st Aug 2018	00-24	5150	500	4650	4535	115			
SR-WR *	1st August 2018 to 31st August 2018	00-24	No limit is being Specified.						

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ER-SR	1st August 2018 to 31st August 2018	00-06	4350	250	4100	2762	1338		
		06-18				2847	1253		
		18-24				2762	1338		
SR-ER *	1st August 2018 to 31st August 2018	00-24	No limit is being Specified.						
ER-NER	1st August 2018 to 2nd August 2018	00-08	1310	45	1265	225	1040		
		08-17	990		945		720		
		17-23	910		865		640		
		23-24	990		945		720		
	3rd August 2018 to 31st August 2018	00-17	1310	45	1265	225	1040		
		17-23	1230		1185		960		
23-24		1310	1265		1040				
NER-ER	1st August 2018 to 2nd August 2018	00-08	1780	45	1735	0	1735		
		08-17	1320		1275		1275		
		17-23	1390		1345		1345		
		23-24	1320		1275		1275		
	3rd August 2018 to 31st August 2018	00-17	1780	45	1735	0	1735		
		17-23	1850		1805		1805		
23-24		1780	1735		1735				
W3 zone Injection	1st August 2018 to 31st August 2018	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 - 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.

SR	1st August 2018	00-05	9500	750	8750	7277	1473		
		05-06	9500		8750	7277	1473		
		06-18	9500		8750	7362	1388		
		18-22	9500		8750	7277	1473		
		22-24	9500		8750	7277	1473		
	2nd August 2018 to	00-05	9500	750	8750	7297	1453		
		05-06	9500		8750	7297	1453		
		06-930	9300		8550	7382	1168		
		930-18	9500		8750	7382	1368		
		18-22	9500		8750	7297	1453		
		22-24	9500		8750	7297	1453		
	3rd August 2018 to 07th August 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		
	08th August 2018	00-05	9500	750	8750	7297	1453		
		05-06	9500		8750	7297	1453		
		06-930	9500		8750	7382	1368		
		930-18	9300		8550	7382	1168	-200	Revised due to shutdown of 765/400kV ICT # 2 at Maheshwaram
		18-22	9500		8750	7297	1453		
		22-24	9500		8750	7297	1453		
	09th August 2018 to 31st August 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 - Vindhychal 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 August 2018 to 31st August 2018	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st August 2018 to 2nd August 2018	00-08	1780	45	1735	0	1735		
		08-17	1320		1275		1275		
		17-23	1390		1345		1345		
		23-24	1320		1275		1275		
	3rd August 2018 to 31st August 2018	00-17	1780	45	1735	0	1735		
		17-23	1850		1805		1805		
	23-24	1780		1735		1735			
WR									
SR *	1st August 2018 to 31st August 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)

		Applicable Revisions
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 4
WR-NR	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 0 to 4
	Frequent outage of HVDC Champa - Kurukshetra poles	Rev-2 to 4
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 4
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 4
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 4
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 4
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 4
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 4
W3 zone Injection	---	Rev-0 to 4

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 4
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 4
		Frequent outage of HVDC Champa - Kurukshetra poles	Rev-2 to 4
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 4
(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 4
	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 4
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 4
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 4

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
0	26th April 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	11th May 2018	Whole Month	Revised STOA margins due to operationalization of 174 MW LTA from Teesta-III HEP to UP discoms w.e.f. 12th May 2018	ER-NR/Import of NR
2	30th July 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 MTOA	WR-NR/Import of NR
			Change in STOA margin due to change in LTA	ER-NR/Import of NR
			Revised STOA margins due to revocation of 500 MW LTA from Ind-bharat	ER-SR/Import of SR
		1st Aug to 2nd Aug 2018	Revised due to day-time shutdown of 400/220 kV, 315 MVA ICT-1 at Misa and change in load - generation pattern of NER	ER-NER/NER-ER/Import /Export of NER
		3rd August to 31st Aug 2018	Revised due to change in load - generation pattern of NER	ER-NER/NER-ER/Import /Export of NER
3	31st July	2nd August to 31st Aug 2018	Revised STOA margin due to change in LTA/MTOA	WR-NR/Import of NR
		2nd August	ICT-2 shutdown at Maheshwaram	WR-SR/Import of SR
		2nd August to 31st Aug 2018	Revised STOA margin due to change in allocation to Telangana from WR plants	WR-SR/Import of SR
		2nd August to 31st Aug 2018	Revised STOA margins due to: (a) 40 MW LTA from DSPPL,Rajasthan to R Infra,Maharashtra and 5 MW LTA from Rajasthan to Chattisgarh (b) 40 MW allocation to MP from NR ISGS (c) 100 MW allocation to Chattisgarh from Kishanganga NR	NR-WR
4	7th August	8th August	Revised due to shutdown of 765/400kV ICT # 2 at Maheshwaram	WR-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : August'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	10083	5458	5490
2	Haryana	8627	8371	2765	2765
3	Rajasthan	9370	9229	5305	5305
4	Delhi	5806	5811	1075	1075
5	Uttar Pradesh	15893	15467	9512	9565
6	Uttarakhand	2117	1935	1083	1157
7	Himachal Pradesh	1503	1386	1107	1128
8	Jammu & Kashmir	2799	1910	1514	1249
9	Chandigarh	344	232	0	0
10	ISGS/IPPs	24	24	20279	17370
	Total NR	56958	54448	48099	45105
II	EASTERN REGION				
1	Bihar	4087	2872	310	200
2	Jharkhand	1171	879	364	227
3	Damodar Valley Corporation	2925	2686	5264	4211
4	Orissa	4009	3198	2539	2192
5	West Bengal	8603	5753	5360	4272
6	Sikkim	84	85	0	0
7	Bhutan	212	220	1592	1526
8	ISGS/IPPs	265	258	11202	8851
	Total ER	21357	15950	26631	21479
III	WESTERN REGION				
1	Maharashtra	16834	14986	11885	11120
2	Gujarat	14542	11032	7379	7330
3	Madhya Pradesh	9729	6361	4011	2955
4	Chattisgarh	4171	3498	2999	2527
5	Daman and Diu	333	293	0	0
6	Dadra and Nagar Haveli	804	733	0	0
7	Goa-WR	516	357	0	0
8	ISGS/IPPs	4170	3731	39160	30544
	Total WR	51098	40992	65434	54475

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	6215	5903	4018
2	Telangana	8305	6501	4447	3038
3	Karnataka	9352	7571	6477	4630
4	Tamil Nadu	14096	11471	8411	6721
5	Kerala	3673	2200	1564	263
6	Pondy	373	376	0	0
7	Goa-SR	84	85	0	0
8	ISGS/IPPs	0	0	11055	8993
	Total SR	43986	34419	37857	27664
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	74	0	0
2	Assam	1318	1168	307	196
3	Manipur	171	87	0	0
4	Meghalaya	267	195	313	228
5	Mizoram	99	68	8	8
6	Nagaland	129	80	22	16
7	Tripura	205	150	61	59
8	ISGS/IPPs	159	160	1963	1836
	Total NER	2471	1982	2674	2343
	Total All India	176311	148186	182392	152686