

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

Issue Date: 22nd August 2018

Issue Time: 1220 hrs

Revision No. 7

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 14th August 2018	00-24	12000 11050**	500	11500 10550**	9034 8084**	2466 2466**		
	15th August 2018 to 31st August 2018	00-10	11400 10450**	500	10900 9950**	9034 8084**	1866 1866**		
		10-22	12000 11050**	500	11500 10550**	9034 8084**	2466 2466**		
		22-24	11400 10450**	500	10900 9950**	9034 8084**	1866 1866**		
	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.						

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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		
		0930-18	4950	500	4450	4535	0		
		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.					
ER-SR	1st August 2018 to 13th August 2018	00-06	4350	250	4100	2762	1338		
		06-18				2847	1253		
		18-24				2762	1338		
	14th August 2018 to 31st August 2018	00-06	4350	250	4100	2338	1762		
		06-18				2423	1677		
		18-24				2338	1762		
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		225	1040		
		08-17	990				720		
		17-23	910				640		
		23-24	990				720		
	3rd August 2018 to 22nd August 2018	00-17	1310	45		225	1040		
		17-23	1230				960		
		23-24	1310				1040		
	23rd August 2018	00-01	1310	45		225	1040		
		01-17	1470				1200	160	
		17-23	1300				1030	70	
		23-24	1470				1200	160	
	24th August 2018 to 31st August 2018	00-17	1470	45		225	1200	160	
		17-23	1300				1030	70	
		23-24	1470				1200	160	

Revised due to continuous shutdown of Palatana module 1 (GTG+STG) for APM activities

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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		
	23rd August 2018	00-01	1780	45	1735	0	1735		
		01-17	1710		1665		1665	-70	
		17-23	1800		1755		1755	-50	
	24th August 2018 to 31st August 2018	23-24	1710	45	1665	0	1665	-70	
		00-17	1710		1665		1665	-70	
		17-23	1800		1755		1755	-50	
			23-24	1710			1665	-70	
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) KWPC, 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
ER									
NR	1st August 2018	00-18	17100	800	16300	12994 12044**	3306		
			16150**		15350**		3306**		
		18-23	15400		14600		1606		
			14450**		13650**		1606**		
		23-24	17100		16300		3306		
			16150**		15350**		3306**		
	2nd August 2018 to 14th Aug 2018	00-18	17100	800	16300	12901 11951**	3399		
			16150**		15350**		3399**		
		18-23	15400		14600		1699		
			14450**		13650**		1699**		
		23-24	17100		16300		3399		
			16150**		15350**		3399**		
	15th August 2018 to 31st Aug 2018	00-10	16300	800	15500	12901 11951**	2599		
			15350**		14550**		2599**		
		10-18	17100		16300		3399		
16150**			15350**		3399**				
18-22		15400	14600		1699				
		14450**	13650**		1699**				
22-23		14600	13800		899				
		13650**	12850**		899**				
23-24		16300	15500		2599				
		15350**	14550**		2599**				

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	
		18-22	9500		8750	7297	1453	
		22-24	9500		8750	7297	1453	
	09th August 2018 to 13th 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	
	14th August 2018 to 31st August 2018	00-05	9500	750	8750	6873	1877	
05-06		9500	8750		6873	1877		
06-18		9500	8750		6958	1792		
18-22		9500	8750		6873	1877		
22-24		9500	8750		6873	1877		

* 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 August 2018 to 31st August 2018	00-06	4500	700	3800	248	3552			
		06-18			3800	368	3432			
		18-24			3800	248	3552			
NER	1st August 2018 to 2nd August 2018	00-08	1780	45	1735	0	1735		Revised due to continuous shutdown of Palatana module 1 (GTG+STG) for APM activities	
		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			
	23rd August 2018	00-01	1780	45	1735	0	1735			
		01-17	1710		1665		1665	-70		
		17-23	1800		1755		1755	-50		
	24th August 2018 to 31st August 2018	23-24	1710	45	1665	0	1665	-70		
		00-17	1710		1665		1665	-70		
		17-23	1800		1755		1755	-50		
			23-24	1710		1665		1665		-70
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 7
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 7
	Restriction on Mundra Mohindragarh power order on account of frequent RVO operation	Rev- 6 to 7
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 7
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 7
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 7
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 7
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 7
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 7
W3 zone Injection	---	Rev-0 to 7

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 7
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 7
		Frequent outage of HVDC Champa - Kurukshetra poles	Rev-2 to 7
		Restriction on Mundra Mohindragarh power order on account of frequent RVO operation	Rev-6 to 7
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 7
		(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 7
	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 7
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 7
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 7

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

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
5	13th August	14th August'18 to 31st August'18	STOA margin revised due to planned shutdown of Talcher Stg-II Unit # 6 on Annual overhauling	WR-SR/Import of SR
6	13th August	15th August to 31st August 2018	Revised due to restriction on Mundra Mohindragarh power order on account of frequent RVO operation	WR-NR/Import of NR
7	21st August	23rd August to 31st August 2018	Revised due to continuous shutdown of Palatana module 1 (GTG+STG) for APM activities	ER-NER/NER-ER/Import/Export of NER

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