National Load Despatch Centre
Total Transfer Capability for August 2018

Issue Date: 11th May 2018 Issue Time: 1100 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
NR-WR*	1st August 2018 to 31st August 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st August 2018 to 31st August 2018	00-24	12250 11300**	500	11750 10800**	9179 8229**	2571 2571**		
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	3413	1537		Revised STOA margins due to operationalization of 174 MW LTA from Teesta-III HEP to UP discoms w.e.f. 12th May 2018
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 to 31st August 2018	00-05	5150	500	4650	4515	135		
		05-22	5150		4650		135		
		22-24	5150		4650		135		
SR-WR *	1st August 2018 to 31st August 2018	00-24	No limit is being Specified.						
ER-SR	1st August 2018 to 31st August 2018	00-06	4350	250	4100	3262	838		
		06-18				3347	753		
		18-24				3262	838		
SR-ER *	1st August 2018 to 31st August 2018	00-24	No limit is being Specified.						
ER-NER	1st August 2018 to 31st August 2018	00-17	1250	45	1205	225	980		
		17-23	1110		1065		840		
		23-24	1250		1205		980		
NER-ER	1st August 2018 to 31st August 2018	00-17	1760	45	1715	0	1715		
		17-23	1780		1735		1735		
		23-24	1760		1715		1715		

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W3 zone Injection	1st August 2018 to 31st August 2018	00-24	No limit is being specified (In case ofany 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) 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 willl 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 to 31st August 2018	00-18	17500 16550**	800	16700 15750**	12592 11642**	4108 4108**		Revised STOA margins due to operationalization of 174 MW LTA from Teesta-III HEP to UP discoms w.e.f. 12th May 2018
		18-23	15700 14750**		14900 13950**		2308 2308**		
		23-24	17500 16550**		16700 15750**		4108 4108**		
NER	1st August 2018 to 31st August 2018	00-17	1250	45	1205	225	980		
		17-23	1110		1065		840		
		23-24	1250		1205		980		
WR									
SR	1st August 2018 to 31st August 2018	00-05	9500	750	8750	7777	973		
		05-06	9500		8750	7777	973		
		06-18	9500		8750	7862	888		
		18-22	9500		8750	7777	973		
		22-24	9500		8750	7777	973		

* 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	4500		3800	248	3552		
NER	1st August 2018 to 31st August 2018	00-17	1760	45	1715	0	1715		
		17-23	1780		1735		1735		
		23-24	1760		1715		1715		
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)

Corridor	Constraint	Applicable Revisions
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 1
WR-NR	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 0 to 1
	High loading of 400 kV Bhachau-Versana D/C line	
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 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-0 to 1
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 1
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 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-0 to 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-0 to 1
W3 zone Injection	---	Rev-0 to 1

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 1
		(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
		High loading of 400 kV Bhachau-Versana D/C line	Rev-0 to 1
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 1
		(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 1
	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 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-0 to 1
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 1

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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

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