

National Load Despatch Centre
Total Transfer Capability for July 2018

Issue Date: 19th July 2018

Issue Time: 1200 hrs

Revision No. 10

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 July 2018 to 31st July 2018	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st July 2018 to 2nd July 2018	00-730	12000	500	11500	9179	2321		
			11050**		10550**	8229**	2321**		
		730-24	11000	500	10500	9179	1321		
			10050**		9550**	8229**	1321**		
	3rd July 2018 to 5th July 2018	00-24	12000	500	11500	9179	2321		
			11050**		10550**	8229**	2321**		
	6th July 2018	00-05'	12000	500	11500	9179	2321		
			11050**		10550**	8229**	2321**		
		05-24'	10500	500	10000	9179	821		
	07th July 2018 to 31st July 2018	00-24	12000	500	11500	9179	2321		
		11050**		10550**	8229**	2321**			
NR-ER*	1st July 2018 to 31st July 2018	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st July 2018 to 02nd July 2018	00-24	5250	300	4950	3413	1537		
	3rd July 2018 to 31st July 2018	00-24	5250	300	4950	3523	1427		
W3-ER	1st July 2018 to 31st July 2018	00-24	No limit is being specified.						
ER-W3	1st July 2018 to 31st July 2018	00-24	No limit is being specified.						
WR-SR	1st July 2018	00-630	5150	500	4650	4515	135		
		630-22	4900		4400		0		
		22-24	4900		4400		0		
	02nd July 2018 to 19th July 2018	00-05	5150	500	4650	4515	135		
		05-22	5150		4650		135		
		22-24	5150		4650		135		
	20th July 2018	00-930	5150	500	4650	4515	135		Revised due to shutdown of 765/400kV ICT-1 at Maheshwaram
		0930-18	4950		4450		0	-200	
		18-24	5150		4650		135		
	21st July 2018 to 31st July 2018	00-05	5150	500	4650	4515	135		
		05-22	5150		4650		135		
		22-24	5150		4650		135		
SR-WR*	1st July 2018 to 31st July 2018	00-24	No limit is being Specified.						

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ER-SR	1st July 2018	00-06	4350	250	4100	3262	838		
		06-18				3347	753		
		18-24				3262	838		
	2nd July 2018 to 3rd July 2018	00-06	4350	250	4100	3262	838		
		06-630	4350		4100	3347	753		
		630-18	4050		3800	3347	453		
18-24		4050	3800		3262	538			
ER-SR	4th July 2018 to 09th July 2018	00-06	4350	250	4100	3262	838		
		06-18				3347	753		
		18-24				3262	838		
	10th July 2018 to 11th July 2018	00-06	4350	250	4100	3262	838		
		06-09	4350		4100	3347	753		
		09-18	4150		3900	3347	553		
		18-24	4150		3900	3262	638		
	12th July 2018	00-06	4350	250	4100	3262	838		
		06-18				3347	753		
		18-24				3262	838		
	13th July 2018 to 14th July 2018	00-06	4350	250	4100	3262	838		
		06-09	4350		4100	3347	753		
		09-18	4150		3900	3347	553		
		18-24	4150		3900	3262	638		
	15th July 2018 to 31st July 2018	00-06	4350	250	4100	3262	838		
		06-18				3347	753		
		18-24				3262	838		
	SR-ER *	1st July 2018 to 31st July 2018	00-24	No limit is being Specified.					
ER-NER	1st July 2018 to 31st July 2018	00-17	1250	45	1205	225	980		
		17-23	1110		1065		840		
		23-24	1250		1205		980		
NER-ER	1st July 2018 to 31st July 2018	00-17	1760	45	1715	0	1715		
		17-23	1780		1735		1735		
		23-24	1760		1715		1715		
W3 zone Injection	1st July 2018 to 31st July 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 July 2018	00-06	9500	750	8750	7777	973		
		06-630	9500		8750	7862	888		
		630-18	9250		8500	7862	638		
		18-24	9250		8500	7777	723		
	02nd July 2018 to 03rd July 2018	00-06	9500	750	8750	7777	973		
		06-630	9500		8750	7862	888		
		630-18	9200		8450	7862	588		
		18-24	9200		8450	7777	673		
	4th July 2018 to 09th July 2018	00-06	9500	750	8750	7777	973		
		06-18	9500		8750	7862	888		
		18-24	9500		8750	7777	973		
	10th July 2018 to 11th July 2018	00-06	9500	750	8750	7777	973		
		06-09	9500		8750	7862	888		
		09-18	9300		8550	7862	688		
		18-24	9300		8550	7777	773		
	12th July 2018	00-06	9500	750	8750	7777	973		
		06-18	9500		8750	7862	888		
		18-24	9500		8750	7777	973		
	13th July 2018 to 14th July 2018	00-06	9500	750	8750	7777	973		
		06-09	9500		8750	7862	888		
		09-18	9300		8550	7862	688		
		18-24	9300		8550	7777	773		
	15th July 2018 to 19th July 2018	00-06	9500	750	8750	7777	973		
		06-18	9500		8750	7862	888		
		18-24	9500		8750	7777	973		
	20th July 2018	00-06	9500	750	8750	7777	973		
		06-930	9500		8750	7862	888		
		930-18	9300		8550	7862	688	-200	Revised due to shutdown of 765/400kV ICT-1 at Maheshwaram
18-24		9500	8750		7777	973			
21st July 2018 to 31st July 2018	00-06	9500	750	8750	7777	973			
	06-18	9500		8750	7862	888			
	18-24	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 July 2018 to 31st July 2018	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24			3800	248	3552		
NER	1st July 2018 to 31st July 2018	00-17	1760	45	1715	0	1715		
		17-23	1780		1735		1735		
		23-24	1760		1715		1715		
WR									
SR *	1st July 2018 to 31st July 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 10
WR-NR	(n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0
	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 1 to 10
	Frequent outage of HVDC Champa - Kurukshetra poles	Rev- 3-10
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 10
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 10
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 10
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 10
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 10
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 10
W3 zone Injection	---	Rev-0 to 10

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 10
		(n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-1 to 10
		Frequent outage of HVDC Champa - Kurukshetra poles	Rev-3-10
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 10
		(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 10
	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 10
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 10
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 10

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Total Transfer Capability for July 2018**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	26th April 2018	Whole Month	Revised considering (a) newly commissioned 765kV Jabalpur-Orai D/C, Orai-Aliagarh D/C ,LILO 765kV Satna-Gwalior-1 S/C at Orai , 2*1000MVA 765/400kV Orai ICTs, 400kV Orai PG- Orai UP D/C , LILO of 765kV Kanpur-Jhatikara S/C at Aligarh, LILO of 765kV Agra-Greater Noida at Aligarh and (b) due to restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra	WR-NR / ER-NR / Import of NR
2	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
3	27th May 2018	Whole Month	Revised considering (a) Restoration of power order on HVDC Mundra-Mahindragarh due to revival of generation at APL and CGPL plants, b) Frequent outage of HVDC Champa - Kurukshetra poles	WR-NR / Import of NR
4	29th June 2018	01st July 2018 and 02nd July 2018	Revised due to shutdown of 765kV Phagi-Gwalior-2	WR-NR / Import of NR
		01st July 2018	Revised due to shutdown of 765kV Nizamabad-Maheshwaram-2	WR-SR / Import of SR
5	01st July 2018	02nd July 2018 and 3rd July 2018	Revised due to shutdown of 400kV Jeypore-Gazuwaka-1 and 2 respectively	ER-SR / Import of SR
6	02nd July 2018	03rd July 2018 to 31st July 2018	Revised STOA margins due to operationalisation of 110 MW MTOA from JITPL, Odisha to Northern Railways (Uttar Pradesh)	ER-NR / Import of NR
7	5th July 2018	6th July 2018	Revised due to emergency shutdown of HVDC Champa-Kurukshetra Bipole	WR-NR / Import of NR
8	09th July 2018	10th July 2018 and 11th July 2018	Power order restriction of Talcher-Kolar HVDC to 1800MW due to ACF-2 (Filter Bank-2) shutdown at Kolar.	ER-SR / Import of SR
9	12th July 2018	13th July 2018 and 14th July 2018	Power order restriction of Talcher-Kolar HVDC to 1800MW due to ACF-3 (Filter Bank-3) shutdown at Kolar.	ER-SR / Import of SR
10	19th July 2018	20th July 2018	Revised due to shutdown of 765/400kV ICT-1 at Maheshwaram	WR-SR / Import of SR

ASSUMPTIONS IN BASECASE					
				Month : July'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	9930	10215	4966	4979
2	Haryana	8382	8543	2582	2582
3	Rajasthan	10604	11049	6919	6890
4	Delhi	5892	6206	968	968
5	Uttar Pradesh	15757	15580	9652	9570
6	Uttarakhand	2000	1785	1034	921
7	Himachal Pradesh	1463	1398	775	747
8	Jammu & Kashmir	2450	1808	1171	1161
9	Chandigarh	341	278	0	0
10	ISGS/IPPs	24	25	21264	19125
	Total NR	56842	56888	49331	46943
II	EASTERN REGION				
1	Bihar	4118	2870	310	200
2	Jharkhand	1180	879	364	227
3	Damodar Valley Corporation	2946	2686	5264	4211
4	Orissa	4042	3213	2539	2192
5	West Bengal	8671	5746	5360	4272
6	Sikkim	85	85	0	0
7	Bhutan	214	220	1592	1393
8	ISGS/IPPs	264	258	11393	8908
	Total ER	21519	15957	26822	21403
III	WESTERN REGION				
1	Maharashtra	18078	13981	12207	9821
2	Gujarat	14438	9108	7871	6560
3	Madhya Pradesh	9530	6420	4533	3587
4	Chattisgarh	4003	3591	2999	2675
5	Daman and Diu	320	278	0	0
6	Dadra and Nagar Haveli	810	724	0	0
7	Goa-WR	505	331	0	0
8	ISGS/IPPs	3712	3407	37104	29370
	Total WR	51396	37840	64714	52013

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	8636	8636	5505	4512
2	Telangana	9615	7115	3735	2937
3	Karnataka	9463	5196	7213	3381
4	Tamil Nadu	14700	12900	8860	7491
5	Kerala	3675	2150	1502	216
6	Pondy	376	376	0	0
7	Goa-SR	85	85	0	0
8	ISGS/IPPs	0	0	13591	11248
	Total SR	46548	36458	40406	29785
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	133	74	0	0
2	Assam	1308	1173	258	136
3	Manipur	166	87	0	0
4	Meghalaya	278	195	192	66
5	Mizoram	99	69	8	8
6	Nagaland	128	86	22	16
7	Tripura	220	147	162	168
8	ISGS/IPPs	160	100	2092	2022
	Total NER	2492	1931	2734	2416
	Total All India	179241	149469	185705	154048