National Load Despatch Centre
Total Transfer Capability for July 2018

Issue Date: 09th July 2018 Issue Time: 1300 hrs Revision No. 8

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 11050**	500	11500 10550**	9179 8229**	2321 2321**		
		730-24	11000 10050**	500	10500 9550**	9179 8229**	1321 1321**		
	3rd July 2018 to 5th July 2018	00-24	12000 11050**	500	11500 10550**	9179 8229**	2321 2321**		
	6th July 2018	00-05'	12000 11050**	500	11500 10550**	9179 8229**	2321 2321**		
		05-24'	10500 9550**	500	10000 9050**	9179 8229**	821 821**		
	07th July 2018 to 31st July 2018	00-24	12000 11050**	500	11500 10550**	9179 8229**	2321 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 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.						
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		

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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		Power order restriction of Talcher-Kolar HVDC to 1800MW due to ACF-2 (Filter Bank-2) shutdown at Kolar.
		06-09	4350		4100	3347	753		
		09-18	4150		3900	3347	553	-200	
		18-24	4150		3900	3262	638		
	12th 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 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 July 2018 to 02nd July 2018	00-730	17100 16150**	800	16300 15350**	12592 11642**	3708 3708**		
		730-18	15700 14750**		14900 13950**		2308 2308**		
		18-23	14100 13150**		13300 12350**		708 708**		
		23-24	15700 14750**		14900 13950**		2308 2308**		
	3rd July 2018 to 05th July 2018	00-18	17100 16150**	800	16300 15350**	12702 11752**	3598 3598**		
		18-23	15400 14450**		14600 13650**		1898 1898**		
		23-24	17100 16150**		16300 15350**		3598 3598**		
	6th July 2018	00-05'	17100 16150**		16300 15350**		3598 3598**		
		05-18'	15000 14050**	800	14200 13250**	12702 11752**	1498 1498**		
		18-23	13450 12500**		12650 11700**		0 0**		
		23-24	15000 14050**		14200 13250**		1498 1498**		
	7th July 2018 to 31st July 2018	00-18	17100 16150**	800	16300 15350**	12702 11752**	3598 3598**		
		18-23	15400 14450**		14600 13650**		1898 1898**		
		23-24	17100 16150**		16300 15350**		3598 3598**		

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		
WR									
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		Power order restriction of Talcher-Kolar HVDC to 1800MW due to ACF-2 (Filter Bank-2) shutdown at Kolar.
		06-09	9500		8750	7862	888		
		09-18	9300		8550	7862	688	-200	
		18-24	9300		8550	7777	773		
	12th 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	4500		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)

Corridor	Constraint	Applicable Revisions
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 8
WR-NR	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0
	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 1 to 8
	Frequent outage of HVDC Champa - Kurukshetra poles	Rev- 3-8
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
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 8
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 8
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8
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 8
NER-ER	(n-1) contingency of 400/220 kV, 2x315MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 8
W3 zone Injection	---	Rev-0 to 8

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 8
		(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0
		(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-1 to 8
		Frequent outage of HVDC Champa - Kurukshetra poles	Rev-3-8
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 8
		(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 8
	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 8
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 8
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8

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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 commisioned 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

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