National Load Despatch Centre Total Transfer Capability for July 2018

Issue Date: 01st July 2018 Issue Time: 0930 hrs Revision No. 5

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	
	1st July 2018 to	00-06				55	1945			
NR-WR*	31st July 2018	06-18	2500	500	2000	65	1935			
	21300413 2010	18-24				55	1945			
		00-730	12000	500	11500	9179	2321			
	1st July 2018 to	00-730	11050**	300	10550**	8229**	2321**			
	2nd July 2018		11000		10500	9179	1321			
WR-NR*		730-24		500						
			10050**		9550**	8229**	1321**			
	3rd July 2018 to	00.04	12000	500	11500	9179	2321			
	31st July 2018	00-24	11050**	500	10550**	8229**	2321**			
			11030**		10330***	8229***	2521***			
	1st July 2018 to	00-06	2000		1800	193	1607			
NR-ER*	31st July 2018	06-18	2000	200	1800	303	1497			
	,	18-24	2000		1800	193	1607			
ER-NR*	1st July 2018 to 31st July 2018	00-24	5250	300	4950	3413	1537			
W3-ER	1st July 2018 to 31st July 2018	00-24				No limit is	s being specified.			
ER-W3	1st July 2018 to 31st July 2018	00-24		No limit is being specified.						
		00.620	5150	5150	4650		125			
	1st July 2018	00-630	5150	500	4650	4515	135			
		630-22	4900		4400	4515	0			
WR-SR		22-24	4900		4400		0			
	02nd July 2018 to 31st July 2018	00-05	5150		4650		135			
		05-22	5150	500	4650	4515	135			
		22-24	5150		4650		135			
SR-WR *	1st July 2018 to 31st July 2018	00-24				No limit is	s being Specified.			
		00-06				3262	838			
	1st July 2018	06-18	4350	250	4100	3347	753			
	15t July 2010	18-24	1330	230	1100	3262	838			
		00-06	4350		4100	3262	838			
	2nd July 2018 to	06-630	4350		4100	3347	753		Revised due to shutdown of 400kV	
ER-SR	3rd July 2018 to	630-18	4050	250	3800	3347	453	-300	Jeypore-Gazuwaka-1 and 2	
	J = 0.10	18-24	4050		3800	3262	538	-300	respectively	
		00-06	1030		3300	3262	838	300		
	4th July 2018 to	06-18	4350	250	4100	3347	753			
	31st July 2018	18-24				3262	838			
SR-ER *	1st July 2018 to 31st July 2018	00-24					s being Specified.			
	1et Inly 2019 to	00-17	1250		1205		980			
ER-NER	1st July 2018 to 31st July 2018	17-23	1110	45	1065	225	840			
	313t July 2016	23-24	1250		1205		980			
MED ED	1st July 2018 to	00-17	1760	45	1715		1715	-		
NER-ER	31st July 2018	17-23 23-24	1780	45	1735 1715	0	1735 1715	-		
		23-24	1760		1/15		1/15			

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W3 zone Injection	1 00-74 INo limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)								

| 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).

- 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.

^{**}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.

Simultaneous Import Capability

Corrido r	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									
		00-730	17100 16150**		16300 15350**		3708 3708**		
	1st July 2018 to	730-18	15700 14750**		14900 13950**	12592	2308		
	02nd July 2018	18-23	14100	800	13300	11642**	708		
			13150**		12350**		708**		
		23-24	15700		14900		2308		
NR			14750**		13950**		2308**		
		00-18	17100		16300	12592	3708		
	3rd July 2018 to 31st July 2018	00-18	16150**		15350**		3708**		
		18-23	15400	800	14600		2008		
			14450**		13650**	11642**	2008**		
		23-24	17100 16150**		16300 15350**		3708 3708**		
		00.17							
NER	1st July 2018 to	00-17 17-23	1250 1110	45	1205 1065	225	980 840		
- ,	31st July 2018	23-24	1250		1205		980		
WR									
		00-06	9500		8750	7777	973		
		06-630	9500		8750	7862	888		
	1st July 2018	630-18	9250	750	8500	7862	638		
		18-24	9250		8500	7777	723		
		00-06	9500		8750	7777	973		
SR	02nd July 2018	06-630	9500	750	8750	7862	888		Revised due to shutdown of
	to 03rd July 2018	630-18	9200	750	8450	7862	588	-300	400kV Jeypore-Gazuwaka-1 and 2 respectively
	2010	18-24	9200		8450	7777	673	-300	
	44 4 4 2010	00-06	9500		8750	7777	973		
	4th July 2018 to 31st July 2018	06-18	9500	750	8750	7862	888		
	21300013 2010	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-NRATC = 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 06-18	4500	700	3800 3800	248 368	3552 3432		
	31st July 2016	18-24	4500		3800	248	3552		
	1 of July 2019 to	00-17	1760	1760 1780 1760 45	1715	0	1715		
NER	1st July 2018 to 31st July 2018	17-23	1780		1735		1735		
	518t July 2016	23-24	1760		1715		1715		
WD									
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 5
WR-NR	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. (n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 Rev- 1 to 5
NR-ER	Frequent outage of HVDC Champa - Kurukshetra poles (n-1) contingency of 400 kV Saranath-Pusauli	Rev- 3-5 Rev-0 to 5
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 5
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
and ER- SR	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
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 5
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 5
W3 zone Injection		Rev-0 to 5

Limiting Constraints (Simultaneous)

			Applicable Revisions
	Townsout	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 5
NR	Import	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0
1111		(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-1 to 5
		Frequent outage of HVDC Champa - Kurukshetra poles	Rev-3-5
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 5
		(n-1) contingency of 400 kV Saranath-Pusauli	10000
NER	Import	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misab. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 5
	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 5
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 5
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5

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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
	2010	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

ASSUM	IPTIONS 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)
ı	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
П	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
Ш	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