

**National Load Despatch Centre
Total Transfer Capability for July 2020**

Issue Date: 29th June 2020

Issue Time: 1800 hrs

Revision No. 3

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 2020 to 31st July 2020	00-06	2500	500	2000	195	1805			
		06-18				1223	777			
		18-24				195	1805			
WR-NR*	1st July 2020	00-06	17200	500	16700	10268	6432		a) Revision in STOA margin due to change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 151.2 MW to 200 MW b) Revision in TTC/ATC due to outage of 765 kV Gwalior - Agra -II	
			16250**		15750**	9318**				
		06-08	17200	500	16700	10657	6043			
			16250**		15750**	9707**				
		08-18	15950	500	15450	10657	4793			-1250
			15000**		14500**	9707**				
18-24	15950	500	15450	10268	5182	-1250				
	15000**		14500**	9318**						
WR-NR*	2nd July 2020 to 31st July 2020	00-06	17200	500	16700	10268	6432		Revision in STOA margin due to change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 151.2 MW to 200 MW	
			16250**		15750**	9318**				
		06-18	17200	500	16700	10657	6043			
			16250**		15750**	9707**				
18-24	17200	500	16700	10268	6432					
	16250**		15750**	9318**						
NR-ER*	1st July 2020 to 31st July 2020	00-06	2000	200	1800	193	1607			
		06-18	2000		1800	303	1497			
		18-24	2000		1800	193	1607			
ER-NR*	1st July 2020	00-08	5250	300	4950	4066	884		a) Revision in STOA margin due to allocation of 20.75 MW power from Kameng HEP to UP and Haryana	
		08-24	4800	300	4500	4066	434	-450	b) Revision in TTC/ATC due to outage of 765 kV Gwalior - Agra -II	
ER-NR*	2nd July 2020 to 31st July 2020	00-24	5250	300	4950	4066	884		Revision in STOA margin due to allocation of 20.75 MW power from Kameng HEP to UP and Haryana	
W3-ER	1st July 2020 to 31st July 2020	00-24	No limit is being specified.							
ER-W3	1st July 2020 to 31st July 2020	00-24	No limit is being specified.							
WR-SR^	1st July 2020	00-0930	6950	500	6450	4035	2415		Revision in TTC/ATC due to outage of 765/400 kV ICT-I at Maheshwaram	
		0930-22	6350		5850		1815			-600
		22-24	6350		5850		1815			-600
	2nd July 2020 to 31st July 2020	00-05	6950	500	6450	4035	2415			
		05-22	6950		6450		2415			
		22-24	6950		6450		2415			

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SR-WR *	1st July 2020 to 31st July 2020	00-24	4600	400	4200	550	3650			
ER-SR [^]	1st July 2020	00-06	5650	250	5400	2663	2737	-300	Revision in TTC/ATC due to forced outage of 400/220 kV ICT-II at Jeypore	
		06-0930	5650			2748	2652	-300		
		0930-18	5600			2748	2652	-350		
		18-24	5600			2663	2737	-350		
	2nd July 2020	00-06	5650	250	5400	2663	2737	-300	Revision in TTC/ATC due to forced outage of 400/220 kV ICT-II at Jeypore	
		06-18				2748	2652	-300		
		18-24				2663	2737	-300		
	3rd July 2020 to 31st July 2020	00-06	5950	250	5700	2663	3037			
		06-18				2748	2952			
		18-24				2663	3037			
	SR-ER *	1st July 2020 to 31st July 2020	00-24	No limit is being Specified.						
	ER-NER*	1st July 2020 to 31st July 2020	00-02	1080	45	1035	289	746	50	Revision in TTC/ATC due to the following:- a) Change in load-generation balance of NER b) Commissioning of one unit (1x150 MW) of Kameng HEP
02-07			1080	289			746	50		
07-12			1080	334			701	60		
12-17			1080	334			701	30		
17-18			1080	334			701	70		
18-22			950	905			289	616	-60	
22-23			1080	1035			289	746	70	
23-24			1080	1035			289	746	50	
NER-ER*	1st July 2020 to 31st July 2020	00-02	2150	45	2105	21	2084	-180	Revision in TTC/ATC due to the following:- a) Change in load-generation balance of NER b) Commissioning of one unit (1x150 MW) of Kameng HEP Revision in STOA margin of due allocation of 20.75 MW power from Kameng HEP to UP, Haryana, Chhattisgarh and Goa	
		02-07	2150			21	2084	-180		
		07-12	2150			21	2084	-310		
		12-17	2150			21	2084	-210		
		17-18	2150			21	2084	-530		
		18-22	2300			2255	21	2234		-380
		22-23	2150			2105	21	2084		-530
		23-24	2150			2105	21	2084		-180
W3 zone Injection	1st July 2020 to 31st July 2020	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.

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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
<p>1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala</p> <p>2) W3 comprises of the following regional entities :</p> <p>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</p> <p># 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.</p> <p>In case of TTC Revision due to any shutdown :</p> <p>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.</p> <p>Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section</p> <p>^Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of WR-SR and ER-SR corridor has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.</p> <p>^In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka SLDC by taking appropriate measures.</p> <p>SR-WR TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.</p> <p>WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.</p>									

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
NR*	1st July 2020	00-06	22450	800	21650	14334	7316		a) Revision in STOA margin due to change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 151.2 MW to 200 MW b) Revision in STOA margin due to allocation of 20.75 MW power from Kameng HEP to UP and Haryana c) Revision in TTC/ATC due to outage of 765 kV Gwalior - Agra -II
			21500**		20700**	13384**			
		06-08	22450		21650	14723	6927		
			21500**		20700**	13773**			
		08-09	20750		19950	14723	5227	-1700	
			19800**		19000**	13773**			
		09-17	20750		19950	14723	5227	-1700	
19800**	19000**		13773**						
17-18	20750	19950	14723	5227	-1700				
	19800**	19000**	13773**						
18-24	20750	19950	14334	5616	-1700				
	19800**	19000**	13384**						
NR*	2nd July 2020 to 31st July 2020	00-06	22450	800	21650	14334	7316		a) Revision in STOA margin due to change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 151.2 MW to 200 MW b) Revision in STOA margin due to allocation of 20.75 MW power from Kameng HEP to UP and Haryana
			21500**		20700**	13384**			
		06-09	22450		21650	14723	6927		
			21500**		20700**	13773**			
		09-17	22450		21650	14723	6927		
			21500**		20700**	13773**			
17-18	22450	21650	14723	6927					
	21500**	20700**	13773**						
18-24	22450	21650	14334	7316					
	21500**	20700**	13384**						
NER*	1st July 2020 to 31st July 2020	00-02	1080	45	1035	289	746	50	Revision in TTC/ATC due to the following:- a) Change in load-generation balance of NER b) Commissioning of one unit (1x150 MW) of Kameng HEP
		02-07	1080		1035	289	746	50	
		07-12	1080		1035	334	701	60	
		12-17	1080		1035	334	701	30	
		17-18	1080		1035	334	701	70	
		18-22	950		905	289	616	-60	
		22-23	1080		1035	289	746	70	
		23-24	1080		1035	289	746	50	
WR*									
SR**	1st July 2020	00-06	12600	750	11850	6698	5152	-300	a) Revision in TTC/ATC due to forced outage of 400/220 kV ICT-II at Jeypore b) Revision in TTC/ATC due to outage of 765/400 kV ICT-I at Maheshwaram
		06-0930	12600		11850	6783	5067	-300	
		0930-18	11950		11200	6783	4417	-950	
		18-24	11950		11200	6698	4502	-950	

SR [#]	2nd July 2020	00-06	12600	750	11850	6698	5152	-300	Revision in TTC/ATC due to forced outage of 400/220 kV ICT-II at Jeypore
		06-18	12600		11850	6783	5067	-300	
		18-24	12600		11850	6698	5152	-300	
	3rd July 2020 to 31st July 2020	00-06	12900	750	12150	6698	5452		
		06-18	12900		12150	6783	5367		
		18-24	12900		12150	6698	5452		

* 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 = $A * C / (B+C)$

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

#Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of SR Import has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.

In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka by taking appropriate measures.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.

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 2020 to 31st July 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	1526	2274		
		18-24	4500		3800	388	3412		
NER*	1st July 2020 to 31st July 2020	00-02	2150	45	2105	21	2084	-180	Revision in TTC/ATC due to the following:- a) Change in load-generation balance of NER b) Commissioning of one unit (1x150 MW) of Kameng HEP Revision in STOA margin of due allocation of 20.75 MW power from Kameng HEP to UP, Haryana, Chhattisgarh and Goa Revision in STOA margin of due allocation of 20.75 MW power from Kameng HEP to UP, Haryana, Chhattisgarh and Goa
		02-07	2150		2105	21	2084	-180	
		07-12	2150		2105	21	2084	-310	
		12-17	2150		2105	21	2084	-210	
		17-18	2150		2105	21	2084	-530	
		18-22	2300		2255	21	2234	-380	
		22-23	2150		2105	21	2084	-530	
		23-24	2150		2105	21	2084	-180	
WR*									
SR**^	1st July 2020 to 31st July 2020	00-24	3700	400	3300	1150	2150		

* 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).

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

^SR Export TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

Limiting Constraints (Corridor wise)			Applicable Revisions
Corridor	Constraint		
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line		Rev- 0
	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT		Rev -1 to 3
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 3
ER-NR	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. 3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.		Rev- 0 to 3
WR-SR and ER-SR	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt		Rev- 0 to 3
	n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt		
	Low Voltage at Gazuwaka (East) Bus.		
WR-SR and ER-SR	n-1 contingency of one 765/400 kV Nizamabad ICT will overload of ICT-II at Maheshwaram		Rev-03
SR-WR	a) N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt b) N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs		Rev- 0 to 3
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Samaguri-Sonabil S/C (200 MW)		Rev- 0 to 3
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line		Rev- 0 to 3
W3 zone Injection	---		Rev- 0 to 3
Limiting Constraints (Simultaneous)			Applicable Revisions
NR	Import	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. 3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.	Rev- 0 to 3
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0
		N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 1 to 3
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 3
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Samaguri-Sonabil S/C (200 MW)	Rev- 0 to 3
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line	Rev- 0 to 3
SR	Import	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 0 to 3
		n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt	
		Low Voltage at Gazuwaka (East) Bus	
	Import	n-1 contingency of one 765/400 kV Nizamabad ICT will overload of ICT-I at Maheshwaram	Rev - 03
Export	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt		Rev- 0 to 3
	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs		

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	29th April 2020	Whole Month	Revision in TTC/ATC after after commissioning of 400 kV Aligarh (PG) - Prithala - Kadarapur - Sohna Road link and 765 kV Bikaner - Moga D/C	WR-NR/Import of NR
2	28th May 2020	Whole Month	Revision in STOA margin due to operationalization of MTOA from Rajasthan Solar to Maharashtra and MP	NR-WR/Export of NR
3	29th June 2020	Whole Month	Revision in STOA margin due to change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 151.2 MW to 200 MW	WR-NR/Import of NR
			Revision in STOA margin due to allocation of 20.75 MW power from Kameng HEP to UP, Haryana, Chhattisgarh and Goa	NER-ER/Export of NER/ER-NR/Import of NR
		30th June 2020	Revision in TTC/ATC due to forced outage of 400/220 kV ICT-II at Jeypore	ER-SR/Import of SR
		Whole Month	Revision in TTC/ATC due to the following:- a) Change in load-generation balance of NER b) Commissioning of one unit (1x150 MW) of Kameng HEP	NER-ER/ER-NER/Import & Export of NER
			1st July 2020	Revision in TTC/ATC due to outage of 765/400 kV ICT-I at Maheshwaram
1st July 2020	Revision in TTC/ATC due to outage of 765 kV Gwalior - Agra -II	WR-NR/ER-NR/Import of NR		

ASSUMPTIONS IN BASECASE					
				Month : July'2020	
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	10228	9530	4580	4618
2	Haryana	9146	9428	2953	2953
3	Rajasthan	10205	11428	6168	6168
4	Delhi	5674	6558	753	753
5	Uttar Pradesh	18102	15529	9903	9908
6	Uttarakhand	2144	1981	1060	1015
7	Himachal Pradesh	1562	1558	859	854
8	Jammu & Kashmir	3049	1686	1075	1017
9	Chandigarh	375	303	0	0
10	ISGS/PPs	23	23	20932	19626
	Total NR	60510	58023	48283	46912
II	EASTERN REGION				
1	Bihar	5380	4412	99	110
2	Jharkhand	1637	1024	425	421
3	Damodar Valley Corporation	3028	2466	4980	4180
4	Orissa	4823	3995	3952	2615
5	West Bengal	8541	7006	5659	4956
6	Sikkim	114	43	0	0
7	Bhutan	171	168	1474	1444
8	ISGS/PPs	-171	-168	11907	10404
	Total ER	23523	18947	28495	24128
III	WESTERN REGION				
1	Maharashtra	16912	14197	12996	9886
2	Gujarat	13683	8433	10325	6208
3	Madhya Pradesh	8253	5455	4058	2863
4	Chattisgarh	3890	3168	2239	2230
5	Daman and Diu	297	153	0	0
6	Dadra and Nagar Haveli	781	550	0	0
7	Goa-WR	513	326	0	0
8	ISGS/PPs	4640	3609	33397	25451
	Total WR	48969	35891	63015	46638

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	9316	6695	6310	5934
2	Telangana	9937	9870	5913	4863
3	Karnataka	8351	4343	6606	3257
4	Tamil Nadu	14738	12867	8660	7460
5	Kerala	3683	2236	1649	423
6	Pondy	298	246	0	0
7	Goa-SR	58	48	0	0
8	ISGS/IPPs	0	0	14970	12179
	Total SR	46381	36305	44109	34117
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	111	70	18	16
2	Assam	1707	1346	295	245
3	Manipur	183	82	0	0
4	Meghalaya	269	198	237	142
5	Mizoram	99	66	68	42
6	Nagaland	120	75	22	16
7	Tripura	259	154	76	75
8	ISGS/IPPs	159	81	2385	2242
	Total NER	2907	2073	3101	2778
	Total All India	182131	151157	187003	154572