

**National Load Despatch Centre
Total Transfer Capability for July 2021**

Issue Date: 28th April, 2021

Issue Time: 1700 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 July 2021 to 31st July 2021	00-06	2500	500	2000	253	1747		
		06-18				1339	661		
		18-24				253	1747		
WR-NR*	1st July 2021 to 31st July 2021	00-06	17850 16900**	500	17350 16400**	10961 10011**	6389		Revised STOA margin due to change in LTA allocations
		06-18	17850 16900**		17350 16400**	11350 10400**	6000		
		18-24	17850 16900**		17350 16400**	10961 10011**	6389		
NR-ER*	1st July 2021 to 31st July 2021	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	603	1197		
		18-24	2000		1800	193	1607		
ER-NR*	1st July 2021 to 31st July 2021	00-24	5500	300	5200	4280	920		
W3-ER	1st July 2021 to 31st July 2021	00-24	No limit is being specified.						
ER-W3	1st July 2021 to 31st July 2021	00-24	No limit is being specified.						
WR-SR [^]	1st July 2021 to 31st July 2021	00-05	9350	650	8700	3890	4810		Revised STOA margin due to change in LTA allocations.
		05-22	9350		8700		4810		
		22-24	9350		8700		4810		
SR-WR *	1st July 2021 to 31st July 2021	00-24	4600	400	4200	803	3397		Revised STOA margin due to change in LTA allocations.
ER-SR [^]	1st July 2021 to 31st July 2021	00-06	5750	350	5400	2672	2728		
		06-18				2757	2643		
		18-24				2672	2728		
SR-ER *	1st July 2021 to 31st July 2021	00-24	No limit is being Specified.						
ER-NER*	1st July 2021 to 31st July 2021	00-02	820	45	775	474	301		
		02-07	820		775	474	301		
		07-12	850		805	474	331		
		12-18	850		805	474	331		
		18-22	590		545	474	71		
		22-24	820		775	474	301		
NER-ER*	1st July 2021 to 31st July 2021	00-02	3200	45	3155	83	3072		
		02-07	3200		3155	83	3072		
		07-12	3130		3085	83	3002		
		12-18	3180		3135	83	3052		
		18-22	3180		3135	83	3052		
		22-24	3200		3155	83	3072		
W3 zone Injection	1st July 2021 to 31st July 2021	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.

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* 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.

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 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.

^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.

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.

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 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 2021 to 31st July 2021	00-06	23350	800	22550	15241	7309		Revised STOA margin due to change in LTA allocations		
			22400**		21600**	14291**					
		06-09	23350		22550	15630	6920				
			22400**		21600**	14680**					
		09-17	23350		22550	15630	6920				
			22400**		21600**	14680**					
17-18	23350	22550	15630	6920							
	22400**	21600**	14680**								
NER*	1st July 2021 to 31st July 2021	00-02	820	45	775	474	301				
			02-07		820	775				474	301
		07-12	850		805	474	331				
			12-18		850	805				474	331
		18-22	590		545	474	71				
			22-24		820	775				474	301
WR*											
SR#	1st July 2021 to 31st July 2021	00-06	15100	1000	14100	6562	7538		Revised STOA margin due to change in LTA allocations		
			06-18		15100	14100				6647	7453
			18-24		15100	14100				6562	7538
* 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 2021 to 31st July 2021	00-06	4500	700	3800	446	3354		
		06-18			3800	1942	1858		
		18-24	4500		3800	446	3354		
NER*	1st July 2021 to 31st July 2021	00-02	3200	45	3155	83	3072		
		02-07	3200		3155	83	3072		
		07-12	3130		3085	83	3002		
		12-18	3180		3135	83	3052		
		18-22	3180		3135	83	3052		
		22-24	3200		3155	83	3072		
WR*									
SR*^	1st July 2021 to 31st July 2021	00-24	3700	400	3300	1553	1747		Revised STOA margin due to change in LTA allocations.

* 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 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT		Rev- 0 to 1
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 1
ER-NR	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. Inter-regional flow pattern towards NR		Rev- 0 to 1
WR-SR and ER-SR	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT		Rev- 0 to 1
	N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit		
	Low Voltage at Gazuwaka (East) Bus.		
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 1
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C		Rev- 0 to 1
NER-ER	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I		Rev- 0 to 1
W3 zone Injection	---		Rev- 0 to 1
Limiting Constraints (Simultaneous)			Applicable Revisions
NR	Import	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. Inter-regional flow pattern towards NR	Rev- 0 to 1
		N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	
	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 1
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	Rev- 0 to 1
	Export	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 1
SR	Import	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0 to 1
		N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit	
		Low Voltage at Gazuwaka (East) Bus	
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 1
	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs		

National Load Despatch Centre
Total Transfer Capability for July 2021

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th April 2021	Whole month	Revised STOA margin due to change in LTA allocations	WR-NR/NR Import
			Revised STOA margin due to change in LTA allocations	WR-SR/ SR Import
			Revised STOA margin due to change in LTA allocations	SR-WR/SR Export

ASSUMPTIONS IN BASECASE					
				Month : July 2021	
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	8362	7660	3590	3590
2	Haryana	8111	7759	2202	2202
3	Rajasthan	10391	10486	6738	6738
4	Delhi	5762	5713	695	695
5	Uttar Pradesh	16912	15863	8290	8294
6	Uttarakhand	2340	2092	1285	1197
7	Himachal Pradesh	1624	1336	581	630
8	Jammu & Kashmir	2837	2579	883	883
9	Chandigarh	317	233	0	0
10	ISGS/IPPs	18	18	20358	16403
	Total NR	56674	53739	44622	40632
II	EASTERN REGION				
1	Bihar	5330	3680	351	344
2	Jharkhand	1559	1082	378	352
3	Damodar Valley Corporation	2967	2673	4899	3682
4	Orissa	4335	3722	3418	2740
5	West Bengal	8812	5900	5427	4307
6	Sikkim	113	45	0	0
7	Bhutan	0	0	2284	2158
8	ISGS/IPPs	800	800	14202	9636
	Total ER	23916	17902	30959	23219
III	WESTERN REGION				
1	Maharashtra	21329	17835	14498	10811
2	Gujarat	18107	14058	12938	8826
3	Madhya Pradesh	9402	6258	4805	4854
4	Chattisgarh	4513	2950	3084	2253
5	Daman and Diu	384	301	0	0
6	Dadra and Nagar Haveli	799	862	0	0
7	Goa-WR	554	515	0	0
8	ISGS/IPPs	5059	4341	38446	34081
	Total WR	60147	47120	73771	60825

IV	SOUTHERN REGION				
1	Andhra Pradesh	8555	6443	6825	5284
2	Telangana	9362	7901	5042	3903
3	Karnataka	8841	6710	8282	6412
4	Tamil Nadu	15733	11849	6531	5056
5	Kerala	4051	3058	1657	1283
6	Pondy	256	193	0	0
7	Goa-SR	40	30	0	0
8	ISGS/IPPs	9	6	15941	12341
	Total SR	46847	36190	44278	34279
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	132	89	118	63
2	Assam	1587	1206	516	512
3	Manipur	180	79	104	9
4	Meghalaya	319	291	266	213
5	Mizoram	132	41	49	45
6	Nagaland	134	98	54	23
7	Tripura	486	314	284	284
8	ISGS/IPPs	0	0	2364	2082
	Total NER	2970	2118	3755	3231
	Total All India	190554	157069	197385	162186