

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

Issue Date: 27th February 2021

Issue Time: 1600 hrs

Revision No. 0

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 June 2021 to 30th June 2021	00-06	2500	500	2000	195	1805					
		06-18				1281	719					
		18-24				195	1805					
WR-NR*	1st June 2021 to 30th June 2021	00-06	17850 16900**	500	17350 16400**	10853 9903**	6497		Revised STOA margin due to change in LTA allocation of RPL-SECI-II-RE, ALFANAR_SECI-III and RWE_APL2_SECI-III(Ghadsisa)			
		06-18	17850 16900**		17350 16400**	11242 10292**	6108					
		18-24	17850 16900**		17350 16400**	10853 9903**	6497					
NR-ER*	1st June 2021 to 30th June 2021	00-06	2000	200	1800	193	1607					
		06-18				1800	603	1197				
		18-24				1800	193	1607				
ER-NR*	1st June 2021 to 30th June 2021	00-24	5500	300	5200	4280	920					
W3-ER	1st June 2021 to 30th June 2021	00-24	No limit is being specified.									
ER-W3	1st June 2021 to 30th June 2021	00-24	No limit is being specified.									
WR-SR^	1st June 2021 to 30th June 2021	00-05	8000	500	7500	3531	3969		Revised STOA margin due to change in LTA allocations.			
		05-22					7500	3969				
		22-24					7500	3969				
SR-WR *	1st June 2021 to 30th June 2021	00-24	4600	400	4200	550	3650					
ER-SR^	1st June 2021 to 30th June 2021	00-06	5900	250	5650	2913	2737		Revised STOA margin due to change in LTA allocations.			
		06-18				2998	2652					
		18-24				2913	2737					
SR-ER *	1st June 2021 to 30th June 2021	00-24	No limit is being Specified.									
ER-NER*	1st June 2021 to 30th June 2021	00-02	1260	45	1215	474	741		Revised TTC/ATC due to - 1) Change in Load-Generation of NER 2) Addition of 4th unit (1x150 MW) of 4 x 150 MW Kameng Generation 3) Commissioning of 400 kV SM Nagar (ISTS) - PK Bari (ISTS) D/C 4) Commissioning of 400 kV Silchar - Misa D/C			
		02-07					1215	741				
		07-12					1215	474		741		
		12-17					1215	474		741		
		17-21					920	875		474	401	
		21-24					1260	1215		474	741	
NER-ER*	1st June 2021 to 30th June 2021	00-02	3450	45	3405	83	3322		Revised TTC/ATC due to - 1) Change in Load-Generation of NER 2) Addition of 4th unit (1x150 MW) of 4 x 150 MW Kameng Generation 3) Commissioning of 400 kV SM Nagar (ISTS) - PK Bari (ISTS) D/C 4) Commissioning of 400 kV Silchar - Misa D/C			
		02-07					3405	83		3322		
		07-12					3405	83		3322		
		12-17					3405	83		3322		
		17-21					3500	3455		83	3372	
		21-24					3450	3405		83	3322	

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W3 zone Injection	1st June 2021 to 30th June 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.**

\* 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 - Vindhyaachal 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**

Total Transfer Capability for June 2021

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
<b>Issue Date: 27th February 2021</b>	1st June 2021 to 30th June 2021	00-06	23350 22400**	800	22550 21600**	15133 14183**	7417		Revised STOA margin due to -
		06-09	23350 22400**		22550 21600**	15522 14572**	7028		a) operationalisation of 99 MW LTA from Chuzachen HEP to Haryana
		09-17	23350 22400**		22550 21600**	15522 14572**	7028		b) change in LTA allocation of RPL-SECI-II-RE, ALFANAR_SECI-III and RWE_APL2_SECI-III(Ghadsisa)
		17-18	23350 22400**		22550 21600**	15522 14572**	7028		
		18-24	23350 22400**		22550 21600**	15133 14183**	7417		
<b>NER*</b>	1st June 2021 to 30th June 2021	00-02	1260	45	1215	474	741		Revised TTC/ATC due to -
		02-07	1260		1215	474	741		1) Change in Load-Generation of NER
		07-12	1260		1215	474	741		2) Addition of 4th unit (1x150 MW) of 4 x 150 MW Kameng Generation
		12-17	1260		1215	474	741		3) Commissioning of 400 kV SM Nagar (ISTS) - PK Bari (ISTS) D/C
		17-21	920		875	474	401		4) Commissioning of 400 kV Silchar - Misa D/C
		21-24	1260		1215	474	741		
<b>WR*</b>									
<b>SR*#</b>	1st June 2021 to 30th June 2021	00-06	13900	750	13150	6443	6707		Revised STOA margin due to change in LTA allocations.
		06-18	13900		13150	6528	6622		
		18-24	13900		13150	6443	6707		

\* 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									
Total Transfer Capability for June 2021									
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
<b>Issue Date: 27th February 2021</b>	1st June 2021 to 30th June 2021	00-06	4500	700	3800	388	3412		
		06-18			3800	1884	1916		
		18-24	4500		3800	388	3412		
<b>NER*</b>	1st June 2021 to 30th June 2021	00-02	3450	45	3405	83	3322		Revised TTC/ATC due to -  1) Change in Load-Generation of NER  2) Addition of 4th unit (1x150 MW) of 4 x 150 MW Kameng Generation  3) Commissioning of 400 kV SM Nagar (ISTS) - PK Bari (ISTS) D/C  4) Commissioning of 400 kV Silchar - Misa D/C
		02-07	3450		3405	83	3322		
		07-12	3450		3405	83	3322		
		12-17	3450		3405	83	3322		
		17-21	3500		3455	83	3372		
		21-24	3450		3405	83	3322		
<b>WR*</b>									
<b>SR**</b>	1st June 2021 to 30th June 2021	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.

<b>Limiting Constraints (Corridor wise)</b>			<b>Applicable Revisions</b>
Total Transfer Capability for June 2021			
<b>Corridor</b>	<b>Constraint</b>		
<b>27th Feb</b>	N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT		Rev- 0
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusaui		Rev- 0
<b>ER-NR</b>	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
<b>WR-SR and ER-SR</b>	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT		Rev- 0
	Low Voltage at Gazuwaka (East) Bus.		
<b>SR-WR</b>	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
<b>ER-NER</b>	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C		Rev- 0
<b>NER-ER</b>	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 220/132 kV,100 MVA Dimapur ICT-2		Rev- 0
<b>W3 zone Injection</b>	---		Rev- 0
<b>Limiting Constraints (Simultaneous)</b>			<b>Applicable Revisions</b>
<b>NR</b>	<b>Import</b>	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
		N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	Rev- 0
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusaui	Rev- 0
<b>NER</b>	<b>Import</b>	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	Rev- 0
	<b>Export</b>	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 220/132 kV,100 MVA Dimapur ICT-2	Rev- 0
<b>SR</b>	<b>Import</b>	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0
		Low Voltage at Gazuwaka (East) Bus	
	<b>Export</b>	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	Rev- 0

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e: 27th February 2021

<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision/Comment</b>	<b>Corridor Affected</b>
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ASSUMPTIONS IN BASECASE					
		Total Transfer Capability for Jur		Month : June 2021	
S.No.	Name of State/Area	Load		Generation	
27th February 2021		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	7082	5944	3303	3219
2	Haryana	6885	6321	1819	1819
3	Rajasthan	11247	11020	7767	7739
4	Delhi	5022	3487	672	672
5	Uttar Pradesh	14329	15067	8642	8612
6	Uttarakhand	1773	1733	886	604
7	Himachal Pradesh	1015	861	190	139
8	Jammu & Kashmir	1494	1461	109	109
9	Chandigarh	251	159	0	0
10	ISGS/IPPs	19	19	14286	11153
	Total NR	49117	46071	37675	34067
II	EASTERN REGION				
1	Bihar	4849	3097	352	344
2	Jharkhand	1502	1034	378	353
3	Damodar Valley Corporation	2755	2556	4353	3476
4	Orissa	3582	2895	2946	2400
5	West Bengal	6439	4457	4879	-422.5043945
6	Sikkim	112	45	0	-4834.711163
7	Bhutan	162	168	270	-4711.737503
8	ISGS/IPPs	-162	-168	12566	8973
	Total ER	19239	14083	25743	19269
III	WESTERN REGION				
1	Maharashtra	18778	13739	12230	9486
2	Gujarat	15979	11721	11083	7999
3	Madhya Pradesh	15354	7101	7911	4031
4	Chattisgarh	00-02	1260		1215
5	Daman and Diu	02-07	1260		1215



S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
27th February 2021					
6	Dadra and Nagar Haveli	07-12	1260	45	1215
7	Goa-WR	12-17	1260		1215

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
27th February 2021					
8	ISGS/PPs	17-21	920		875
	Total WR	21-24	1260		1215
		00-02	3450	45	3405
IV	SOUTHERN REGION	02-07	3450		3405
1	Andhra Pradesh	07-12	3450		3405
2	Telangana	12-17	3450		3405
3	Karnataka	17-21	3500		3455
4	Tamil Nadu	21-24	3450		3405
5	Kerala	3838	2287		1665
6	Pondy	303	309	0	0
7	Goa-SR	47	48	0	0
8	ISGS/PPs	0	0	13941	10412
	Total SR	47158	33605	41613	29942
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	105	66	12	8
2	Assam	1192	861	288	243
3	Manipur	224	109	0	0
4	Meghalaya	322	266	230	189
5	Mizoram	117	67	48	28
6	Nagaland	121	94	8	8
7	Tripura	225	135	75	75
8	ISGS/PPs	139	85	2580	2126
	Total NER	2444	1683	3241	2676
	Total All India	177771	135487	183689	139653