

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

Issue Date: 28th March, 2021

Issue Time: 1600 hrs

Revision No. 4

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	253	1747		Revised STOA margin due to change in LTA allocation by 58MW from NR ISGS to Gujrat	
		06-18				1339	661			
		18-24				253	1747			
WR-NR*	1st June 2021 to 30th June 2021	00-06	17850 16900**	500	17350 16400**	10993 9983**	6417		Revised STOA margin due to change in LTA allocations	
		06-18	17850 16900**		17350 16400**	11322 10372**	6028			
		18-24	17850 16900**		17350 16400**	10993 9983**	6417			
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	9350	650		8700	3873	4827	Revised STOA margin due to change in LTA allocations.	
		05-22				8700		4827		
		22-24				8700		4827		
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	5750	350	5400	2672		2728	Revised STOA margin due to change in LTA allocations.	
		06-18				2757		2643		
		18-24				2672		2728		
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		
		02-07	1260			1215		474		741
		07-12	1260			1215		474		741
		12-17	1260			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		
		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

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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 - Vindhychal 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) KWPC, 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 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 implemetation.

^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
NR	1st June 2021 to 30th June 2021	00-06	23350 22400**	800	22550 21600**	15213 14263**	7337		Revised STOA margin due to change in LTA allocations
		06-09	23350 22400**		22550 21600**	15602 14652**	6948		
		09-17	23350 22400**		22550 21600**	15602 14652**	6948		
		17-18	23350 22400**		22550 21600**	15602 14652**	6948		
		18-24	23350 22400**		22550 21600**	15213 14263**	7337		
NER*	1st June 2021 to 30th June 2021	00-02	1260	45	1215	474	741		
		02-07	1260		1215	474	741		
		07-12	1260		1215	474	741		
		12-17	1260		1215	474	741		
		17-21	920		875	474	401		
		21-24	1260		1215	474	741		
WR*									
SR**	1st June 2021 to 30th June 2021	00-06	15100	1000	14100	6545	7555		Revised STOA margin due to change in LTA allocations.
		06-18	15100		14100	6630	7470		
		18-24	15100		14100	6545	7555		

* 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
NR*	1st June 2021 to 30th June 2021	00-06	4500	700	3800	446	3354		Revised STOA margin due to change in LTA allocation by 58MW from NR ISGS to Gujrat
		06-18			3800	1942	1858		
		18-24	4500		3800	446	3354		
NER*	1st June 2021 to 30th June 2021	00-02	3450	45	3405	83	3322		
		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		
WR*									
SR*^	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.

Limiting Constraints (Corridor wise)			Applicable Revisions
		Total Transfer Capability for June 2021	
Corridor	Constraint		
WR-NR	N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT		Rev- 0 to 4
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 4
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 4
WR-SR and ER-SR	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT Low Voltage at Gazuwaka (East) Bus.		Rev- 0 to 4
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 4
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 4
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 220/132 kV,100 MVA Dimapur ICT-2		Rev- 0 to 4
W3 zone Injection	---		Rev- 0 to 4
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 4
		N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	Rev- 0 to 4
	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 4
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 4
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 220/132 kV,100 MVA Dimapur ICT-2	Rev- 0 to 4
SR	Import	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT Low Voltage at Gazuwaka (East) Bus	Rev- 0 to 4
	Export	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 to 4

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	11th Mar 2021	Whole Month	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole 2	WR-SR, ER-SR/ SR Import
2	16th Mar 2021	18th Mar 2021 to 31st March 2021	Revision in STOA due to operationalization of LTA 12.3 MW from AWEK3L to UPPCL/NR	WR-NR/NR Import
			Revision in STOA due to operationalization of LTA 10.9 MW from AWEK3L to KSEB/SR	WR-SR/SR Import
3	17th Mar 2021	Whole month	Revised ATC due to increase in Reliability Margin from 750 MW to 1000 MW due to high SR demand	WR-SR, ER-SR/ SR Import
4	28th March 2021	Whole Month	Revised STOA margin due to change in LTA allocation by 58MW from NR ISGS to Gujrat	NR-WR/NR Export
			Revised STOA margin due to change in LTA allocations	WR-NR/NR IMPORT
			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 5) Commissioning of 400 kV Silchar - PK Bari D/C	NER Import /NER Export

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/IPPs	17-21	920		875
	Total WR	21-24	1260		1215
		00-02	3450		3405
IV	SOUTHERN REGION	02-07	3450		3405
1	Andhra Pradesh	07-12	3450	45	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/IPPs	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/IPPs	139	85	2580	2126
	Total NER	2444	1683	3241	2676
	Total All India	177771	135487	183689	139653