

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

Issue Date: 30th May, 2021

Issue Time: 1700 hrs

Revision No. 7

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		
		06-18				1339	661		
		18-24				253	1747		
WR-NR*	1st June 2021 to 30th June 2021	00-06	17850 16900**	500	17350 16400**	10994 10044**	6356		
		06-18	17850 16900**		17350 16400**	11383 10433**	5967		
		18-24	17850 16900**		17350 16400**	10994 10044**	6356		
NR-ER*	1st June 2021 to 30th June 2021	00-06	2000	200	1800	193	1607		
		06-18				1800	1197		
		18-24				1800	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 4th June 2021	00-05	6300	650	5650	3889	1761	-3050	Revised TTC/ATC due to continuous shutdown HVDC Raigarh-Pugalur Pole-1&2 and forced outage of 765KV Wardha-Aurangabad ckt-1&2
		05-22	6300		5650		1761	-3050	
		22-24	6300		5650		1761	-3050	
WR-SR^	5th June 2021 to 15th June 2021	00-05	8950	650	8300	3889	4411	-400	Revised TTC/ATC due to forced outage of 765KV Wardha-Aurangabad ckt-1&2
		05-22	8950		8300		4411	-400	
		22-24	8950		8300		4411	-400	
WR-SR^	16th June 2021 to 30th June 2021	00-05	9350	650	8700	3889	4811		
		05-22	9350		8700		4811		
		22-24	9350		8700		4811		
SR-WR*	1st June 2021 to 30th June 2021	00-24	4600	400	4200	765	3435		
ER-SR^	1st June 2021 to 30th June 2021	00-06	5750	350	5400	2672	2728		
		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	1795	45	1750	474	1276	535	Revised TTC/ATC due to change in load-generation pattern in NER and reversal of power flow direction of HVDC BNC-Agra
		02-07	1795		1750	474	1276	535	
		07-12	1795		1750	474	1276	535	
		12-18	1795		1750	474	1276	535	
		18-22	1550		1505	474	1031	630	
		22-24	1795		1750	474	1276	535	
NER-ER*	1st June 2021 to 30th June 2021	00-02	2890	45	2845	83	2762	-560	Revised TTC/ATC due to change in load-generation pattern in NER and reversal of power flow direction of HVDC BNC-Agra
		02-07	2890		2845	83	2762	-560	
		07-12	2890		2845	83	2762	-560	
		12-18	2890		2845	83	2762	-560	
		18-22	2850		2805	83	2722	-650	
		22-24	2890		2845	83	2762	-560	
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.

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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 June 2021 to 30th June 2021	00-06	23350	800	22550	15273	7277		
			22400**		21600**	14323**			
		06-09	23350		22550	15662	6888		
			22400**		21600**	14712**			
		09-17	23350		22550	15662	6888		
22400**	21600**		14712**						
17-18	23350	22550	15662	6888					
18-24	23350	22550	15273	7277					
	22400**	21600**	14323**						
NER*	1st June 2021 to 30th June 2021	00-02	1795	45	1750	474	1276	535	Revised TTC/ATC due to change in load-generation pattern in NER and reversal of power flow direction of HVDC BNC-Agra
			02-07		1795	1750	474	1276	
		07-12	1795		1750	474	1276	535	
		12-18	1795		1750	474	1276	535	
		18-22	1550		1505	474	1031	630	
		22-24	1795		1750	474	1276	535	
WR*									
SR#	1st June 2021 to 4th June 2021	00-06	12050	1000	11050	6562	4488	-3050	Revised TTC/ATC due to continuous shutdown HVDC Raigarh-Pugalur Pole-1&2 and forced outage of 765KV Wardha-Aurangabad ckt-1&2
		06-18	12050		11050	6647	4403	-3050	
		18-24	12050		11050	6562	4488	-3050	
SR#	5th June 2021 to 15th June 2021	00-06	14700	1000	13700	6562	7138	-400	Revised TTC/ATC due to forced outage of 765KV Wardha-Aurangabad ckt-1&2
		06-18	14700		13700	6647	7053	-400	
		18-24	14700		13700	6562	7138	-400	
SR#	16th June 2021 to 30th June 2021	00-06	15100	1000	14100	6562	7538		
		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 June 2021 to 30th June 2021	00-06	4500	700	3800	446	3354		
		06-18			3800	1942	1858		
		18-24	4500		3800	446	3354		
NER*	1st June 2021 to 30th June 2021	00-02	2890	45	2845	83	2762	-560	Revised TTC/ATC due to change in load-generation pattern in NER and reversal of power flow direction of HVDC BNC-Agra
		02-07	2890		2845	83	2762	-560	
		07-12	2890		2845	83	2762	-560	
		12-18	2890		2845	83	2762	-560	
		18-22	2850		2805	83	2722	-650	
		22-24	2890		2845	83	2762	-560	
WR*									
SR*^	1st June 2021 to 30th June 2021	00-24	3700	400	3300	1477	1823		

* 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 7
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 7
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 7
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 7
	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 7
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 7
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 7
W3 zone Injection	---		Rev- 0 to 7
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 7
		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 7
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 7
	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 7
SR	Import	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0 to 7
		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 7
	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs		

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Total Transfer Capability for June 2021

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
5	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
6	28th May 2021	Whole month	1) Revised STOA margin due to increase in LTA allocations by 13 MW (77 MW to 90 MW) from AWEK1L to UPPCL.	WR-NR/NR Import
			2) Revised STOA margin due to LTA allocations of 13 MW from AWEK1L to Chandigarh.	
			3) Revised STOA margin due to decrease in LTA allocation by 38 MW (100 MW to 62 MW) from BETAM to UP (NR).	SR-WR/SR Export
7	30th May 2021	Whole Month	Revised TTC/ATC due to change in load-generation pattern in NER and reversal of power flow direction of HVDC BNC-Agra	NER Import /NER Export
		1st June 2021 to 4th June 2021	Revised TTC/ATC due to continuous shutdown HVDC Raigarh-Pugalur Pole-1&2 and forced outage of 765KV Wardha-Aurangabad ckt-1&2	WR-SR/SR Import
		5th June 2021 to 15th June 2021	Revised TTC/ATC due to forced outage of 765KV Wardha-Aurangabad ckt-1&2	WR-SR/SR Import

ASSUMPTIONS IN BASECASE					
				Month : June 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	8351	9090	4435	4237
2	Haryana	8768	8438	2393	2382
3	Rajasthan	12490	12415	8288	8250
4	Delhi	6218	6351	776	772
5	Uttar Pradesh	19962	17856	9922	9843
6	Uttarakhand	2250	2082	1118	1100
7	Himachal Pradesh	1648	1545	788	732
8	Jammu & Kashmir	2995	2903	1034	1023
9	Chandigarh	344	294	0	0
10	ISGS/IPPs	18	18	20988	19221
	Total NR	63044	60992	49742	47560
II	EASTERN REGION				
1	Bihar	6383	4617	361	435
2	Jharkhand	1902	1502	518	515
3	Damodar Valley Corporation	3060	2723	5508	4307
4	Orissa	4954	4310	4173	3904
5	West Bengal	9394	8361	7126	6383
6	Sikkim	116	116	0	0
7	Bhutan	0	0	2919	2905
8	ISGS/IPPs	810	810	15985	12026
	Total ER	26619	22439	36590	30475
III	WESTERN REGION				
1	Maharashtra	22401	18191	14265	8788
2	Gujarat	18010	14450	12503	6822
3	Madhya Pradesh	9690	6346	4495	3350
4	Chattisgarh	4351	2651	2599	2405
5	Daman and Diu	376	309	0	0
6	Dadra and Nagar Haveli	963	898	0	0
7	Goa-WR	731	584	0	0
8	ISGS/IPPs	4622	3654	41556	37754
	Total WR	61144	47083	75418	59119

IV	SOUTHERN REGION				
1	Andhra Pradesh	8777	7000	6825	5259
2	Telangana	9500	6500	5042	3885
3	Karnataka	9066	6866	7782	6044
4	Tamil Nadu	16142	12542	6531	5033
5	Kerala	4155	2655	1658	1277
6	Pondy	263	200	0	0
7	Goa-SR	41	41	0	0
8	ISGS/IPPs	9	9	15941	12282
	Total SR	47953	35813	43779	33780
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	135	84	118	116
2	Assam	1680	1506	515	512
3	Manipur	202	81	105	99
4	Meghalaya	303	251	278	211
5	Mizoram	160	58	53	29
6	Nagaland	151	113	62	29
7	Tripura	421	244	306	315
8	ISGS/IPPs	0	0	2213	1913
	Total NER	3052	2337	3650	3224
	Total All India	201812	168664	209179	174158