

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

Issue Date: 16th March, 2021

Issue Time: 1600 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 April 2021 to 30th April 2021	00-06	2500	500	2000	195	1805			
		06-18				1281	719			
		18-24				195	1805			
WR-NR*	1st April 2021 to 30th April 2021	00-06	17850 16900**	500	17350 16400**	10865 9915**	6485		Revision in STOA due to operationalization of LTA 12.3 MW from AWEK3L to UPPCL/NR	
		06-18	17850 16900**			11254 10304**	6096			
		18-24	17850 16900**			10865 9915**	6485			
NR-ER*	1st April 2021 to 30th April 2021	00-06	2000	200	1800	193	1607			
		06-18				1800	603	1197		
		18-24				1800	193	1607		
ER-NR*	1st April 2021 to 30th April 2021	00-24	5500	300	5200	4280	920			
W3-ER	1st April 2021 to 30th April 2021	00-24	No limit is being specified.							
ER-W3	1st April 2021 to 30th April 2021	00-24	No limit is being specified.							
WR-SR <sup>^</sup>	1st April 2021 to 30th April 2021	00-05	9350	500	8850	3542	5308		Revision in STOA due to operationalization of LTA 10.9 MW from AWEK3L to KSEB/SR	
		05-22	9350				5308			
		22-24	9350				5308			
SR-WR *	1st April 2021 to 30th April 2021	00-24	4600	400	4200	550	3650			
ER-SR <sup>^</sup>	1st April 2021 to 30th April 2021	00-06	5750	250	5500	2913	2587			
		06-18				2998	2502			
		18-24				2913	2587			
SR-ER *	1st April 2021 to 30th April 2021	00-24	No limit is being Specified.							
ER-NER*	1st April 2021 to 30th April 2021	00-02	1260	45	1215	474	741			
		02-07	1260				741			
		07-12	1260				741			
		12-17	1260				741			
		17-21	920				401			
		21-24	1260				741			
NER-ER*	1st April 2021 to 30th April 2021	00-02	3450	45	3405	83	3322			
		02-07	3450				3322			
		07-12	3450				3322			
		12-17	3450				3322			
		17-21	3500				3372			
		21-24	3450				3322			
W3 zone Injection	1st April 2021 to 30th April 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 Viduyut 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									
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 April 2021 to 30th April 2021	00-06	23350	800	22550	15145	7405		Revision in STOA due to operationalization of LTA 12.3 MW from AWEK3L to UPPCL/NR
			22400**		21600**	14195**			
		06-09	23350		22550	15534	7016		
			22400**		21600**	14584**			
		09-17	23350		22550	15534	7016		
			22400**		21600**	14584**			
17-18	23350	22550	15534	7016					
	22400**	21600**	14584**						
NER*	1st April 2021 to 30th April 2021	00-02	1260	45	1215	474	741		
			1260		1215	474			
		07-12	1260		1215	474	741		
			1260		1215	474			
		12-17	1260		1215	474	741		
			1260		1215	474			
17-21	920	875	474	401					
	1260	1215	474						
WR*									
SR*#	1st April 2021 to 30th April 2021	00-06	15100	750	14350	6455	7895		Revision in STOA due to operationalization of LTA 10.9 MW from AWEK3L to KSEB/SR
		06-18	15100		14350	6540	7810		
		18-24	15100		14350	6455	7895		
* 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 April 2021 to 30th April 2021	00-06	4500	700	3800	388	3412		
		06-18			3800	1884	1916		
		18-24	4500		3800	388	3412		
NER*	1st April 2021 to 30th April 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 April 2021 to 30th April 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>
<b>Corridor</b>	<b>Constraint</b>		
<b>WR-NR</b>	N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT		Rev- 0 to 7
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 7
<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 to 7
<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 to 7
	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 to 7
<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 to 7
<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 to 7
<b>W3 zone Injection</b>	---		Rev- 0 to 7
<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 to 7
		N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 7
		(n-1) contingency of 400 kV Saranath-Pusauli	
<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 to 7
	<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 to 7
<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 to 7
		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 to 7

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**Total Transfer Capability for April 2021**

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th Jan 2021	Apr-21	• LTA figure revised by 41.5 MW after declaration of commercial operation of Kameng HEP (4x150MW) unit-3 w.e.f 00:00Hrs of 22.01.2021	NER-ER/NER Export
2	04th Feb 2021	Whole month	Operationalization of LTA granted to M/s Adani Wind Energy Kutchh Three Limited :-	WR-NR/NR IMPORT
			a) 39.1 MW to UPPCL	WR-SR/SR IMPORT
			b) 18.4 MW to Chandigarh	
3	09th Feb 2021	Whole Month	Operationalization of LTA granted to M/s Alfanar Energy Private Limited on available margins at Bhuj PS :-	WR-NR/NR IMPORT
			a) 14.4 to BSES Rajdhani Power Limited , Delhi	
			b) 4.7 to BSES Yamuna Power Limited , Delhi	
4	12th Feb 2021	Whole Month	Revised due to operationalisation of 300MW MTOA granted form Azure Solar Power ,Rajashtan to Odisha	NR-ER/ NR Export
			Revised due to revised LTA granted for transfer of power from Nabinagar-1	ER-NR/ NR Import
5	27th Feb 2021	Whole Month	Revised STOA margin due to operationalisation of 99 MW LTA from Chuzachen HEP to Haryana	ER-NR
			Revised STOA margin due to change in LTA allocation of RPL-SECI-II-RE, ALFANAR_SECI-III and RWE_APL2_SECI-III(Ghadsisa)	WR-NR
			Revised STOA margin due to change in LTA allocations.	WR-SR, ER-SR/ SR Import
			Revised TTC/ATC due to -	NER Import /NER Export
			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				
6	11th Mar 2021	Whole Month	4) Commissioning of 400 kV Silchar - Misa D/C	WR-SR, ER-SR/ SR Import
			TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole 2	
7	16th Mar 2021	Whole month	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

ASSUMPTIONS IN BASECASE					
				Month : April 2021	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	<b>NORTHERN REGION</b>				
1	Punjab	6227	4997	3097	2902
2	Haryana	7801	6031	2202	2202
3	Rajasthan	10163	12851	7039	7011
4	Delhi	5647	5052	678	678
5	Uttar Pradesh	17979	14878	8867	8792
6	Uttarakhand	1969	1574	930	790
7	Himachal Pradesh	1555	1274	444	392
8	Jammu & Kashmir	2495	2176	433	436
9	Chandigarh	239	153	0	0
10	ISGS/PPs	18	18	18785	13577
	<b>Total NR</b>	<b>54093</b>	<b>49005</b>	<b>42475</b>	<b>36780</b>
II	<b>EASTERN REGION</b>				
1	Bihar	4820	3188	352	344
2	Jharkhand	1522	1046	378	353
3	Damodar Valley Corporation	2784	2584	4559	3683
4	Orissa	3806	3184	3165	2611
5	West Bengal	7328	5393	5270	4142
6	Sikkim	110	44	0	0
7	Bhutan	160	165	440	554
8	ISGS/PPs	-160	-165	12395	8633
	<b>Total ER</b>	<b>20369</b>	<b>15439</b>	<b>26559</b>	<b>20318</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	19941	15342	14113	11160
2	Gujarat	17919	12325	13029	8865
3	Madhya Pradesh	11036	6707	5302	3136
4	Chattisgarh	4288	2679	2873	2590
5	Daman and Diu	337	272	0	0
6	Dadra and Nagar Haveli	873	771	0	0
7	Goa-WR	584	428	0	0
8	ISGS/PPs	5609	4727	39129	29849
	<b>Total WR</b>	<b>60586</b>	<b>43252</b>	<b>74445</b>	<b>55600</b>

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	8713	8774	6825	6825
2	Telangana	9357	8553	5042	4642
3	Karnataka	9140	9202	8283	8283
4	Tamil Nadu	16143	13975	6532	5690
5	Kerala	4156	2952	1658	581
6	Pondy	264	265	0	0
7	Goa-SR	41	41	0	0
8	ISGS/IPPs	9	9	13941	13941
	Total SR	47822	43773	42281	39963
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	105	103	0	0
2	Assam	1433	1150	255	195
3	Manipur	203	100	0	0
4	Meghalaya	313	273	231	167
5	Mizoram	132	47	53	35
6	Nagaland	160	144	12	12
7	Tripura	384	235	154	156
8	ISGS/IPPs	0	0	0	0
	Total NER	2731	2052	705	565
	Total All India	185602	153519	186465	153226