

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

Issue Date: 17th March, 2021

Issue Time: 1630 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 May 2021 to 31st May 2021	00-06	2500	500	2000	195	1805		
		06-18				1281	719		
		18-24				195	1805		
WR-NR*	1st May 2021 to 31st May 2021	00-06	17850 16900**	500	17350 16400**	10865 9915**	6485		
		06-18	17850 16900**		17350 16400**	11254 10304**	6096		
		18-24	17850 16900**		17350 16400**	10865 9915**	6485		
NR-ER*	1st May 2021 to 31st May 2021	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	603	1197		
		18-24	2000		1800	193	1607		
ER-NR*	1st May 2021 to 31st May 2021	00-24	5500	300	5200	4280	920		
W3-ER	1st May 2021 to 31st May 2021	00-24	No limit is being specified.						
ER-W3	1st May 2021 to 31st May 2021	00-24	No limit is being specified.						
WR-SR^	1st May 2021 to 31st May 2021	00-05	9350	650	8700	3542	5158		Revised ATC due to increase in Reliability Margin from 500 MW to 650 MW due to high SR demand
		05-22	9350		8700		5158		
		22-24	9350		8700		5158		
SR-WR *	1st May 2021 to 31st May 2021	00-24	4600	400	4200	550	3650		
ER-SR^	1st May 2021 to 31st May 2021	00-06	5750	350	5400	2913	2487		Revised ATC due to increase in Reliability Margin from 250 MW to 350 MW due to high SR demand
		06-18				2998	2402		
		18-24				2913	2487		
SR-ER *	1st May 2021 to 31st May 2021	00-24	No limit is being Specified.						
ER-NER*	1st May 2021 to 31st May 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		
NER-ER*	1st May 2021 to 31st May 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		

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<b>W3 zone Injection</b>	1st May 2021 to 31st May 2021	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
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**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 - 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) 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 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 May 2021 to 31st May 2021	00-06	23350	800	22550	15145	7405		
			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**						
18-24	23350	22550	15145	7405					
	22400**	21600**	14195**						
NER*	1st May 2021 to 31st May 2021	00-02	1260	45	1215	474	741		
			1260		1215	474			
		07-12	1260		1215	474	741		
			1260		1215	474			
		17-21	920		875	474	401		
			1260		1215	474			
21-24	1260	1215	474	741					
WR*									
SR*#	1st May 2021 to 31st May 2021	00-06	15100	1000	14100	6455	7645		Revised ATC due to increase in Reliability Margin from 750 MW to 1000 MW due to high SR demand
		06-18	15100		14100	6540	7560		
		18-24	15100		14100	6455	7645		

\* 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.

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 May 2021 to 31st May 2021	00-06	4500	700	3800	388	3412		
		06-18			3800	1884	1916		
		18-24	4500		3800	388	3412		
NER*	1st May 2021 to 31st May 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 May 2021 to 31st May 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 Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 7
<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
	<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-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
	<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
<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 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

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	04th Feb 2021	Whole month	Operationalization of LTA granted to M/s Adani Wind Energy Kutchh Three Limited :- a) 39.1 MW to UPPCL 18.4 MW to Chandigarh	WR-NR/NR IMPORT
			b) c) 34.5 MW to KSEB	WR-SR/SR IMPORT
2	09th Feb 2021	Whole Month	Operationalization of LTA granted to M/s Alfanar Energy Private Limited on available margins at Bhuj PS :- a) 14.4 to BSES Rajdhani Power Limited , Delhi b) 4.7 to BSES Yamuna Power Limited , Delhi c) 4.7 to TATA Power Delhi Distribuion Limited	WR-NR/NR IMPORT
3	12th Feb 2021	13th Feb 2021 to 28th Feb 2021	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
4	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 - 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	NER Import /NER Export
5	11th Mar 2021	Whole Month	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole 2	WR-SR, ER-SR/ SR Import
6	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
7	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

ASSUMPTIONS IN BASECASE					
				Month : May 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	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	3510
6	Sikkim	112	45	0	0
7	Bhutan	162	168	270	214
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	4046	2689	2384	1953
5	Daman and Diu	339	292	0	0
6	Dadra and Nagar Haveli	814	774	0	0
7	Goa-WR	625	390	0	0
8	ISGS/IPPs	4017	3424	41810	30230
	Total WR	59952	40130	75417	53699



S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	9090	5024	6476	5986
2	Telangana	9542	10582	4884	4648
3	Karnataka	10315	5023	8110	3639
4	Tamil Nadu	14023	10332	6537	5162
5	Kerala	3838	2287	1665	95
6	Pondy	303	309	0	0
7	Goa-SR	47	48	0	0
8	ISGS/IPPs	0	0	13941	10412
	<b>Total SR</b>	<b>47158</b>	<b>33605</b>	<b>41613</b>	<b>29942</b>
V	<b>NORTH-EASTERN REGION</b>				
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
	<b>Total NER</b>	<b>2444</b>	<b>1683</b>	<b>3241</b>	<b>2676</b>
	<b>Total All India</b>	<b>177771</b>	<b>135487</b>	<b>183689</b>	<b>139653</b>