National Load Despatch Centre
Total Transfer Capability for April 2021

Issue Date: 12th February 2021 Issue Time: 1700 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 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**	10881 9931**	6469		
		06-18	17850 16900**	500	17350 16400**	11270 10320**	6080		
		18-24	17850 16900**	500	17350 16400**	10881 9931**	6469		
NR-ER*	1st April 2021 to 30th April 2021	00-06	2000	200	1800	193	1607		Revised due to operationalisation of 300MW MTOA granted form Azure Solar Power ,Rajashtan to Odisha
		06-18	2000		1800	603	1197		
		18-24	2000		1800	193	1607		
ER-NR*	1st April 2021 to 30th April 2021	00-24	5500	300	5200	4181	1019		Revised due to revised LTA of 115 MW granted for transfer of power from Nabinagar-1
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^	1st April 2021 to 30th April 2021	00-05	8000	500	7500	4107	3393		
		05-22	8000		7500		3393		
		22-24	8000		7500		3393		
SR-WR *	1st April 2021 to 30th April 2021	00-24	4600	400	4200	550	3650		
ER-SR^	1st April 2021 to 30th April 2021	00-06	5900	250	5650	2673	2977		
		06-18				2758	2892		
		18-24				2673	2977		
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	1030	45	985	474	511		
		02-07	1030		985	474	511		
		07-12	1100		1055	474	581		
		12-17	1000		955	474	481		
		17-23	840		795	474	321		
		23-24	1030		985	474	511		
NER-ER*	1st April 2021 to 30th April 2021	00-02	2770	45	2725	83	2642		
		02-07	2770		2725	83	2642		
		07-12	2750		2705	83	2622		
		12-17	2850		2805	83	2722		
		17-23	2910		2865	83	2782		
		23-24	2770		2725	83	2642		

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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
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.

* 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) KWPCL, 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 willl 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 appropiate 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 appropiate 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 22400**	800	22550 21600**	15063 14113**	7487		Revised due to revised LTA of 115 MW granted for transfer of power from Nabinagar-1
		06-09	23350 22400**		22550 21600**	15452 14502**	7098		
		09-17	23350 22400**		22550 21600**	15452 14502**	7098		
		17-18	23350 22400**		22550 21600**	15452 14502**	7098		
		18-24	23350 22400**		22550 21600**	15063 14113**	7487		
NER*	1st April 2021 to 30th April 2021	00-02	1030	45	985	474	511		
		02-07	1030		985	474	511		
		07-12	1100		1055	474	581		
		12-17	1000		955	474	481		
		17-23	840		795	474	321		
		23-24	1030		985	474	511		
WR*									
SR*#	1st April 2021 to 30th April 2021	00-06	13900	750	13150	6780	6370		
		06-18	13900		13150	6865	6285		
		18-24	13900		13150	6780	6370		

* 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 appropiate 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 by taking appropiate measures.

WR-NR/Import of NR TTC has been calculated considering generation at Paricha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Paricha 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		Revised due to operationalisation of 300MW MTOA granted form Azure Solar Power ,Rajashtan to Odisha
		06-18			3800	1884	1916		
		18-24	4500		3800	388	3412		
NER*	1st April 2021 to 30th April 2021	00-02	2770	45	2725	83	2642		
		02-07	2770		2725	83	2642		
		07-12	2750		2705	83	2622		
		12-17	2850		2805	83	2722		
		17-23	2910		2865	83	2782		
		23-24	2770		2725	83	2642		
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.

Limiting Constraints (Corridor wise)

Corridor	Constraint	Applicable Revisions
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	Rev- 0 to 4
	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 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.	Rev- 0 to 4
		(n-1) contingency of 400 kV Saranath-Pusauli	
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	Rev- 0 to 4
		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 4
		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	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 :- a) 39.1 MW to UPPCL b) 18.4 MW to Chandigarh	WR-NR/NR IMPORT
			c) 34.5 MW to KSEB	WR-SR/SR IMPORT
3	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
4	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 of 115MW granted for transfer of power from Nabinagar-1	ER-NR/ NR 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	NORTHERN REGION				
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/IPPs	18	18	18785	13577
	Total NR	54093	49005	42475	36780
II	EASTERN REGION				
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/IPPs	-160	-165	12395	8633
	Total ER	20369	15439	26559	20318
III	WESTERN REGION				
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/IPPs	5609	4727	39129	29849
	Total WR	60586	43252	74445	55600

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