Issue Date: 29th November 2020 Issue Time: 1630 hrs Revision No. 3

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	
	1st December	00-06				195	1805			
NR-WR*	2020 to 31st	06-18	2500	500	2000	1281	719			
	December 2020	18-24				195	1805			
		00-06	17850 16900**	500	17350 16400**	10580 9630**	6770	-300	(i) Revised TTC/ATC due to change in direction of HVDC BNC-AGRA for operational requirement (ii) Revised STOA margin due to:	
WR-NR*	1st December 2020 to 31st December 2020	06-18	17850 16900**	500	17350 16400**	11059 10109**	6291	-300	(a) change in LTA quantum from ALFANAR_SECI-III (Wind) to Delhi DISCOMS (increment of 17 MW) (b) Change in LTA quantum from	
		18-24	17850 16900**	500	17350 16400**	10580 9630**	6770	-300	RWE_APL2_SECI-III (Ghadsisa, Wind) to Haryana (increment of 45 MW)	
	1st December	00-06	2000		1800	193	1607			
NR-ER*	2020 to 31st	06-18	2000	200	1800	303	1497			
ER-NR*	1st December 2020 to 31st December 2020	18-24 00-24	5500	300	1800 5200	193 4066	1607 1134	-750	Revised TTC/ATC due to change in direction of HVDC BNC-AGRA for operational requirement	
W3-ER	1st December 2020 to 31st December 2020	00-24				No limit i	s being specified.			
ER-W3	1st December 2020 to 31st December 2020	00-24		No limit is being specified.						
WR-SR [^]	1st December 2020	00-05 05-07 07-22 22-24	8000 8000 7900 7900	500	7500 8000 7400 7400	4073	3427 8000 3327 3327	-100 -100	Revision in TTC/ATC due to planned outage of 765 kV Angul - Srikakulam circuit 1	
	2nd December 2020 to 31st December 2020	00-05 05-22 22-24	8000 8000 8000	500	7500 7500 7500	4073	3427 3427 3427			
SR-WR *	1st December 2020 to 31st December 2020	00-24	4600	400	4200	550	3650			

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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
		00-06	5900		5650	2673	2977		
^	1st December	06-07	5900		5650	2758	2892		Revision in TTC/ATC due to
ER-SR [^]	2020	07-18	5150	250	4900	2758	2142	-750	planned outage of 765 kV Angul - Srikakulam circuit 1
		18-24	5150		4900	2673	2227	-750	
	2nd December	00-06				2673	2977		
ER-SR [^]	2020 to 31st	06-18	5900	250	5650	2758	2892		
	December 2020	18-24				2673	2977		
SR-ER*	1st December 2020 to 31st December 2020	00-24				No limit i	s being Specified.		
		00-02	650	45	605	474	131	-580	
		02-07	650		605	474	131	-580	Revised TTC/ATC due to: (a) 1) Change in Load-Generation
		07-12	650		605	474	131	-680	of NER 2) Addition of 2x150 MW out of 4 x 150 MW Kameng Generation 3) Forced outage of 2x 50 MW Karbi Langpi generation of Assam 4) Incorporation of HVDC BNC-
ER-NER*	1st December 2020 to 31st December 2020	12-17	650		605	474	131	-650	
	December 2020	17-21	420		375	474	-99	-690	
		21-23	650		605	474	131	-460	AGRA flow of 500 MW towards Biswanath Chariali
		23-24	650		605	474	131	-580	
		00-02	3000		2955	42	2913	500	
		02-07	3000		2955	42	2913	500	Revised TTC/ATC due to: (a) 1) Change in Load-Generation
	1st December	07-12	3000		2955	42	2913	450	of NER 2) Addition of 2x150 MW out of 4
NER-ER*	2020 to 31st December 2020	12-17	3000	45	2955	42	2913	460	x 150 MW Kameng Generation 3) Forced outage of 2x 50 MW
	December 2020	17-21	3180		3135	42	3093	500	Karbi Langpi generation of Assam 4) Incorporation of HVDC BNC-
		21-23	3000		2955	42	2913	320	AGRA flow of 500 MW towards Biswanath Chariali
		23-24	3000		2955	42	2913	500	

Issue Date: 29th November 2020 Issue Time: 1630 hrs Revision No. 3

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 December 2020 to 31st December 2020	00-24	No limit is be	ing specified ((In case of any	constraints appear	ring in the system,	W3 zone exp	oort 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 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.

Simultane	ous Import Capa	ability							
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
		00-06	23350 22400**		22550 21600**	14646 13696**	7904	-1050	(i) Revised TTC/ATC due to change in direction of HVDC
		06-09	23350 22400**		22550 21600**	15125 14175**	7425	-1050	BNC-AGRA for operational requirement (ii) Revised STOA margin due
NR*	1st December 2020 to 31st	09-17	23350	800	22550 21600**	15125 14175**	7425	-1050	to: (a) change in LTA quantum from ALFANAR_SECI-III
	December 2020	17-18	23350 22400**		22550 21600**	15125 14175**	7425	-1050	(Wind) to Delhi DISCOMS (increment of 17 MW) (b) Change in LTA quantum
		18-24	23350 22400**		22550 21600**	14646 13696**	7904	-1050	from RWE_APL2_SECI-III (Ghadsisa, Wind) to Haryana (increment of 45 MW)
		00-02	1150		1105	474	631	-80	Revised TTC/ATC due to:
		02-07	1150	-	1105	474	631	-80	(a) 1) Change in Load-Generation of NER2) Addition of 2x150 MW out of 4 x 150 MW Kameng
	1st December	07-12	1150		1105	474	631	-180	
NER*	2020 to 31st	12-17	1150	45	1105	474	631	-150	Generation 3) Forced outage of 2x 50 MW
	December 2020	17-21	920		875	474	401	-190	Karbi Langpi generation of Assam
		21-23 1150	1150		1105	474	631	40	4) Incorporation of HVDC BNC-AGRA flow of 500 MW
		23-24	1150		1105	474	631	-80	towards Biswanath Chariali
\mathbf{WR}^*									
SR*#	1st December 2020	00-06 06-07 07-18 18-24	13900 13900 13050 13050	750	13150 13900 12300 12300	6746 6831 6831 6746	6404 7069 5469 5554	-850 -850	Revision in TTC/ATC due to planned outage of 765 kV Angul - Srikakulam circuit 1
SR*#	2nd December 2020 to 31st December 2020	00-06 06-18 18-24	13900 13900 13900	750	13150 13150 13150	6746 6831 6746	6404 6319 6404		

* 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

Corrido r	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
	1st December	00-06	4500		3800	388	3412		
NR*	2020 to 31st	06-18		700	3800	1584	2216		
	December 2020	18-24	4500		3800	388	3412		
		00-02	2500		2455	42	2413		Revised TTC/ATC due to:
		02-07	2500	45	2455	42	2413		(a) 1) Change in Load-Generation of NER 2) Addition of 2x150 MW out of 4 x 150 MW Kameng Generation 3) Forced outage of 2x 50 MW Karbi Langpi generation of Assam 4) Incorporation of HVDC BNC-AGRA flow of 500 MW towards
	1st December 2020 to 31st December 2020	07-12	2500		2455	42	2413	-50	
NER*		12-17	2500		2455	42	2413	-40	
	December 2020	17-21	2680		2635	42	2593		
		21-23	2500		2455	42	2413	-180	
		23-24	2500		2455	42	2413		Biswanath Chariali
WR*									
SR*^	1st December 2020 to 31st December 2020	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.

O	Constraints (Corridor wise)	Applicable Revisions
Corridor	Constraint	Applicable Revisions
	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 0 to 2
WR-NR	N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	Rev- 3
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 3
ER-NR	 N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt. 	Rev- 0 to 3
WR-SR	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	
and ER-	n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt	Rev- 0 to 1
SK	Low Voltage at Gazuwaka (East) Bus.	
WR-SR and ER-	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 2 to3
SR	Low Voltage at Gazuwaka (East) Bus.	Rev- 2 103
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 3
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 2
	High Loading of 220 kV Balipara Sonabil (200 MW)	Rev- 3
NER-ER	 a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line 	Rev- 0 to 3
W3 zone Injection		Rev- 0 to 3

Limiting Constraints (Simultaneous)

			Applicable Revisions
	Import	 N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt. 	Rev- 0 to 3
NR	•	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	Rev- 0 to 2 Rev- 3
	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 3
	Import	 a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C 	Rev- 0 to 2
NER		High Loading of 220 kV Balipara Sonabil (200 MW)	Rev- 3
	Export	a) N-1 contingency of 400 kV Silchar- Azara lineb) High Loading of 400 kV Silchar-Killing Line	Rev- 0 to 3
	Import	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt Low Voltage at Gazuwaka (East) Bus	Rev- 0 to 1
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- 2
	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 3

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th Sep 2020	Whole Month	Revision in STOA margin due to the following:- a) Operationalization of 153 MW LTA from Alfanar, Bhuj to Delhi Discoms b) Revision in LTA quantum from RPL-SECI-II-RE (Wind,	WR-NR / Import of NR
			Bhachau) to Punjab and UP from 148 MW to 170 MW TTC/ATC revised after commissioning of HVDC Raigarh – Pugalur Pole -1	WR-SR/ER- SR/Import of SR
2	28th Oct 2020	Whole Month	 STOA margin revised due to the following:- Operationalization of 50 MW LTA from APL Ghadsisa (Wind) to Haryana Revision in LTA quantum from Alfanar Bhuj (Wind) to Delhi DISCOMS from 153 MW to 179 MW Revision in LTA quantum from SEISPPL_MP (Solar) to TDPPL, Delhi from 90 MW to 180 MW 	WR-NR/Import of NR
		1st December 2020	Revision in TTC/ATC due to planned outage of 765 kV Angul - Srikakulam circuit 1	WR-SR/ER- SR/Import of NR
3	29th Nov 2020		(i) Revised TTC/ATC due to change in direction of HVDC BNC-AGRA for operational requirement (ii) Revised STOA margin due to: (a) change in LTA quantum from ALFANAR_SECI-III (Wind) to Delhi DISCOMS (increment of 17 MW) (b) Change in LTA quantum from RWE_APL2_SECI-III (Ghadsisa, Wind) to Haryana (increment of 45 MW)	WR-NR/ER- NR/Import of NR
		Whole Month	Revised TTC/ATC due to: (a) 1) Change in Load-Generation of NER 2) Addition of 2x150 MW out of 4 x 150 MW Kameng Generation 3) Forced outage of 2x 50 MW Karbi Langpi generation of Assam 4) Incorporation of HVDC BNC-AGRA flow of 500 MW towards Biswanath Chariali	ER-NER/NER- ER/Import/Expor t of NER

ASSUN	MPTIONS IN BASECASE				
				Month : December'202	20
S.No.	Name of State/Area		Load	Genera	ation
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	6289	5587	2595	2544
2	Haryana	6451	5257	1291	1291
3	Rajasthan	10865	10750	7532	7509
4	Delhi	4834	3248	672	672
5	Uttar Pradesh	13586	13698	8714	8693
6	Uttarakhand	1466	1418	665	601
7	Himachal Pradesh	1163	978	254	164
8	Jammu & Kashmir	1971	2184	467	316
9	Chandigarh	245	167	0	0
10	ISGS/IPPs	20	20	13796	9540
	Total NR	46890	43308	35985	31329
II	EASTERN REGION				
1	Bihar	5262	5288	384	384
2	Jharkhand	1551	1581	343	343
3	Damodar Valley Corporation	2761	2816	4539	4539
4	Orissa	3490	3559	2940	2940
5	West Bengal	6213	6305	4120	4120
6	Sikkim	111	113	0	0
7	Bhutan	167	171	410	310
8	ISGS/IPPs	-167	-171	12601	12701
	Total ER	19388	19663	25336	25336
III	WESTERN REGION				
1	Maharashtra	15121	12798	9403	8974
2	Gujarat	13777	11083	9019	8248
3	Madhya Pradesh	10000	6622	3769	3926
4	Chattisgarh	3395	2532	1711	2198
5	Daman and Diu	280	276	0	0
6	Dadra and Nagar Haveli	741	754	0	0
7	Goa-WR	492	416	0	0
8	ISGS/IPPs	3644	2828	37593	27186
	Total WR	47449	37309	61495	50532

S.No.	Name of State/Area		Load	Gener	ation
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	8333	5152	7856	5986
2	Telangana	11615	10733	5548	4648
3	Karnataka	9108	5083	6835	3639
4	Tamil Nadu	13505	10597	6062	5162
5	Kerala	3737	2345	1489	95
6	Pondy	314	316	0	0
7	Goa-SR	49	49	0	0
8	ISGS/IPPs	0	0	13941	10412
	Total SR	46660	34276	41733	29942
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	104	66	12	8
2	Assam	1184	855	295	245
3	Manipur	222	109	0	0
4	Meghalaya	311	264	272	147
5	Mizoram	110	67	68	68
6	Nagaland	118	92	8	8
7	Tripura	220	131	73	69
8	ISGS/IPPs	134	83	2372	2114
	Total NER	2403	1667	3099	2659
	Total All India	162657	136138	167648	139799