National Load Despatch Centre

Total Transfer Capability for October 2020

Issue Date: 29th September 2020 Issue Time: 1800 hrs Revision No. 2

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 October 2020 to 31st October 2020	00-06	2500	500	2000	195	1805		
		06-18				1281	719		
		18-24				195	1805		
WR-NR*	1st October 2020 to 31st October 2020	00-06	18150 17200**	500	17650 16700**	10443 9493**	7207		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, Bhachau) to Punjab and UP from 148 MW to 170 MW
		06-18	18150 17200**	500	17650 16700**	10832 9882**	6818		
		18-24	18150 17200**	500	17650 16700**	10443 9493**	7207		
NR-ER*	1st October 2020 to 31st October 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st October 2020 to 31st October 2020	00-24	6250	300	5950	4066	1884		
W3-ER	1st October 2020 to 31st October 2020	00-24	No limit is being specified.						
ER-W3	1st October 2020 to 31st October 2020	00-24	No limit is being specified.						
WR-SR^	1st October 2020 to 31st October 2020	00-05	6950	500	6450	4049	2401		
		05-22	6950		6450		2401		
		22-24	6950		6450		2401		
SR-WR *	1st October 2020 to 31st October 2020	00-24	4600	400	4200	550	3650		
ER-SR^Δ	1st October 2020 to 31st October 2020	00-06	5950	250	5700	2663	3037		
		06-18				2748	2952		
		18-24				2663	3037		
SR-ER *	1st October 2020 to 31st October 2020	00-24	No limit is being Specified.						

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ER-NER*	1st October 2020 to 31st October 2020	00-02	1800	45	1755	474	1281	740	Revision in TTC/ATC due to the following: 1) Change in Load-Generation of NER 2) Addition of 2x150 MW out of 4 x 150 MW Kameng Generation 3) Incorporation of HVDC flow of 700 MW between Biswanath Chariali and Agra
		02-07	1800		1755	474	1281	740	
		07-12	1800		1755	474	1281	720	
		12-17	1800		1755	474	1281	730	
		17-18	1800		1755	474	1281	830	
		18-22	1660		1615	474	1141	690	
		22-23	1800		1755	474	1281	830	
		23-24	1800		1755	474	1281	740	
NER-ER*	1st October 2020 to 31st October 2020	00-02	1820	45	1775	42	1733	-280	
		02-07	1820		1775	42	1733	-280	
		07-12	1820		1775	42	1733	-380	
		12-17	1820		1775	42	1733	-360	
		17-18	1820		1775	42	1733	-530	
		18-22	1910		1865	42	1823	-440	
		22-23	1820		1775	42	1733	-530	
		23-24	1820		1775	42	1733	-280	
W3 zone Injection	1st October 2020 to 31st October 2020	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 Paricha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Paricha 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 October 2020 to 31st October 2020	00-06	24400 23450**	800	23600 22650**	14334 13384**	9266		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, Bhachau) to Punjab and UP from 148 MW to 170 MW
		06-09	24400 23450**		23600 22650**	14723 13773**	8877		
		09-17	24400 23450**		23600 22650**	14723 13773**	8877		
		17-18	24400 23450**		23600 22650**	14723 13773**	8877		
		18-24	24400 23450**		23600 22650**	14334 13384**	9266		
NER*	1st October 2020 to 31st October 2020	00-02	1100	45	1055	474	581	40	Revision in TTC/ATC due to the following: 1) Change in Load-Generation of NER 2) Addition of 2x150 MW out of 4 x 150 MW Kameng Generation
		02-07	1100		1055	474	581	40	
		07-12	1100		1055	474	581	20	
		12-17	1100		1055	474	581	30	
		17-18	1100		1055	474	581	130	
		18-22	960		915	474	441	-10	
		22-23	1100		1055	474	581	130	
		23-24	1100		1055	474	581	40	
WR*									
SR*#	1st October 2020 to 31st October 2020	00-06	12900	750	12150	6712	5438		
		06-18	12900		12150	6797	5353		
		18-24	12900		12150	6712	5438		

* 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 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 October 2020 to 31st October 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	1584	2216		
		18-24	4500		3800	388	3412		
NER*	1st October 2020 to 31st October 2020	00-02	2520	45	2475	42	2433	420	Revision in TTC/ATC due to the following: 1) Change in Load-Generation of NER 2) Addition of 2x150 MW out of 4 x 150 MW Kameng Generation
		02-07	2520		2475	42	2433	420	
		07-12	2520		2475	42	2433	320	
		12-17	2520		2475	42	2433	340	
		17-18	2520		2475	42	2433	170	
		18-22	2610		2565	42	2523	260	
		22-23	2520		2475	42	2433	170	
		23-24	2520		2475	42	2433	420	
WR*									
SR*^	1st October 2020 to 31st October 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.

Limiting Constraints (Corridor wise)

Corridor	Constraint	Applicable Revisions
WR-NR	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev 0 to 2
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev 0 to 2
ER-NR	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. 3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.	Rev 0 to 2
WR-SR and ER-SR	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev 0 to 2
	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.	
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 2
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
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line	Rev 0 to 2
W3 zone Injection	---	Rev 0 to 2

Limiting Constraints (Simultaneous)

		Constraint	Applicable Revisions
NR	**Import**	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt. 3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.	Rev 0 to 2
		N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev 0 to 2
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev 0 to 2
		(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 2
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line	Rev 0 to 2
SR	**Import**	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev 0 to 2
		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	
	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 2
		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 October 2020

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th August 2020	Whole Month	Revision in STOA margin due to the following:- a) Increase in allocation from Kameng HEP to UP, Haryana, Chhattisgarh and Goa b) Revision in LTA/allocation from GIWEL, Bhuj (Wind) and Mangdechu HEP to Assam	ER-NER/NER-ER/Import and Export of NER
			Revision in TTC/ATC due to:- a) Commissioning of HVDC Champa - Kurukshetra Pole-4 b) Change in HVDC APD-Agra power order and load-generation balance.	WR-NR/ER-NR/Import of NR
2	29th 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, Bhachau) to Punjab and UP from 148 MW to 170 MW	WR-NR / Import of NR
			Revision in TTC/ATC due to the following: 1) Change in Load-Generation of NER 2) Addition of 2x150 MW out of 4 x 150 MW Kameng Generation 3) Incorporation of HVDC flow of 700 MW between Biswanath Chariali and Agra	ER-NER/NER-ER/Import and Export of NER

ASSUMPTIONS IN BASECASE					
				Month : October'2020	
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	8133	7273	4001	3942
2	Haryana	7657	6839	2174	2174
3	Rajasthan	10249	9651	6540	6595
4	Delhi	5100	3953	672	672
5	Uttar Pradesh	16112	15424	9198	9135
6	Uttarakhand	1864	1506	924	691
7	Himachal Pradesh	1711	1420	556	305
8	Jammu & Kashmir	2193	1509	617	578
9	Chandigarh	245	151	0	0
10	ISGS/IPPs	21	22	17560	11362
	Total NR	53286	47748	42242	35454
II	EASTERN REGION				
1	Bihar	5248	4450	99	110
2	Jharkhand	1593	1034	425	421
3	Damodar Valley Corporation	2946	2490	4980	4180
4	Orissa	4706	4034	3952	2615
5	West Bengal	8359	7055	5659	4956
6	Sikkim	111	43	0	0
7	Bhutan	167	170	1474	1444
8	ISGS/IPPs	-167	-170	11907	10404
	Total ER	22963	19106	28495	24128
III	WESTERN REGION				
1	Maharashtra	16480	13828	10992	9489
2	Gujarat	15472	12733	12021	9867
3	Madhya Pradesh	8471	7055	2717	2659
4	Chattisgarh	3889	3430	2247	1936
5	Daman and Diu	327	285	0	0
6	Dadra and Nagar Haveli	778	741	0	0
7	Goa-WR	522	442	0	0
8	ISGS/IPPs	4589	3583	35623	31509
	Total WR	50527	42096	63600	55460

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	8607	6756	8664	6188
2	Telangana	12369	11626	6025	5200
3	Karnataka	8244	4514	6969	2879
4	Tamil Nadu	17012	12461	9075	7676
5	Kerala	3776	2223	1630	326
6	Pondy	340	231	0	0
7	Goa-SR	53	45	0	0
8	ISGS/IPPs	0	0	14753	12179
	Total SR	50401	37856	47117	34448
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	100	53	10	9
2	Assam	1552	1090	295	245
3	Manipur	179	88	0	0
4	Meghalaya	268	208	183	97
5	Mizoram	99	67	66	41
6	Nagaland	130	108	21	18
7	Tripura	252	155	76	75
8	ISGS/IPPs	155	82	2268	2019
	Total NER	2735	1851	2919	2504
	Total All India	179756	148574	184373	151995