National Load Despatch Centre
Total Transfer Capability for March 2020

Issue Date: 31st January 2020 Issue Time: 1600 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
NR-WR*	1st March 2020 to 31st March 2020	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st March 2020 to 31st March 2020	00-06	16150 15200**	500	15650 14700**	10275 9325**	5375 5375**		
		06-18	16150 15200**	500	15650 14700**	10664 9714**	4986 4986**		
		18-24	16150 15200**	500	15650 14700**	10275 9325**	5375 5375**		
NR-ER*	1st March 2020 to 31st March 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st March 2020 to 31st March 2020	00-24	5250	300	4950	4050	900		
W3-ER	1st March 2020 to 31st March 2020	00-24	No limit is being specified.						
ER-W3	1st March 2020 to 31st March 2020	00-24	No limit is being specified.						
WR-SR	1st March 2020 to 31st March 2020	00-05	6950	500	6450	4035	2415	1400	TTC/ATC revised after commissioning of 765 kV Vemagiri - C'peta D/C
		05-22	6950		6450		2415	1400	
		22-24	6950		6450		2415	1400	
SR-WR *	1st March 2020 to 31st March	00-24	No limit is being Specified.						
ER-SR	1st March 2020 to 31st March 2020	00-06	5950	250	5700	2663	3037	1000	TTC/ATC revised after commissioning of 765 kV Vemagiri - C'peta D/C
		06-18				2748	2952	1000	
		18-24				2663	3037	1000	
SR-ER *	1st March 2020 to 31st March 2020	00-24	No limit is being Specified.						

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ER-NER	1st March 2020 to 31st March 2020	00-17	1210	45	1165	334	831		
		17-23	1000		955		621		
		23-24	1210		1165		831		
NER-ER	1st March 2020 to 31st March 2020	00-17	1950	45	1905	0	1905		
		17-23	2200		2155		2155		
		23-24	1950		1905		1905		
W3 zone	1st March 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

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

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

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 March 2020 to 31st March 2020	00-06	22100 21150**	800	21300 20350**	14325 13375**	6975		
		06-09	23750 22800**		22950 22000**	14714 13764**	8236		
		09-17	22100 21150**		21300 20350**	14714 13764**	6586		
		17-18	21550 20600**		20750 19800**	14714 13764**	6036		
		18-24	21550 20600**		20750 19800**	14325 13375**	6425		
NER	1st March 2020 to 31st March 2020	00-17	1210	45	1165	334	831		
		17-23	1000		955		621		
		23-24	1210		1165		831		
WR									
SR	1st March 2020 to 31st March 2020	00-06	12900	750	12150	6698	5452	2400	TTC/ATC revised after commissioning of 765 kV Vemagiri - C'peta D/C
		06-18	12900		12150	6783	5367	2400	
		18-24	12900		12150	6698	5452	2400	

* 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

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 March 2020 to 31st March 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st March 2020 to 31st March 2020	00-17	1950	45	1905	0	1905		
		17-23	2200		2155		2155		
		23-24	1950		1905		1905		
WR									
SR *	1st March 2020 to 31st March 2020	00-24	No limit is being Specified.						

* 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

Limiting Constraints (Corridor wise)

Corridor	Constraint	Applicable Revisions
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0-3
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0-3
ER-NR	1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev- 0-3
WR-SR and ER-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0-2
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0-2
	Low Voltage at Gazuwaka (East) Bus.	Rev- 0-2
	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 3
	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.	
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 0-3
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing line	Rev- 0-3
W3 zone Injection	---	Rev- 0-3

Limiting Constraints (Simultaneous)

			Applicable Revisions
NR	**Import**	1. N-1 contingencies of 400 kv Mejia-Maithon A S/C 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/C 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev- 0-3
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0-3
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0-3
		(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 Double circuit (200 MW)	Rev- 0-3
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing line	Rev- 0-3
SR	**Import**	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0-2
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	
		Low Voltage at Gazuwaka (East) Bus.	
		n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 3
		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	

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	31st December 2019	Whole Month	Revised STOA margin due to the following:- a) Operationalization of 10 MW LTA from AGEMPL (Wind, Bhuj) to Noida Power Company Limited (UP) b) Change in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 112 MW to 117.6 MW	WR-NR/Import of NR
2	28th January 2020	Whole Month	TTC/ATC revised after commissioning of HVDC Champa - Kurukshetra Pole 3 Revised STOA Margin due to the following:- a) Operationalization of 200 MW LTA from SBG Cleantech Project Co. Five Pvt. Ltd. (SR-Pavagada) to UPPCL b) Revision in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 117.6 MW to 149.8 MW c) Revision in LTA quantum from RPL-SECI-II-RE (Wind Bachau) to UPPCL from 34.5 MW to 73.8 MW and reduction in LTA quantum to Punjab from 100 MW to 73.8 MW	WR-NR/Import of NR
3	31st January 2020	Whole Month	Increment in TTC/ATC after commissioning of 765 kV Vemagiri - C'peta D/C	WR-SR/ER-SR and Import of SR

ASSUMPTIONS IN BASECASE					
				Month : March'20	
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	7428	5706	2828	2753
2	Haryana	7758	5614	1872	1872
3	Rajasthan	12309	12150	7305	7411
4	Delhi	4556	2786	591	591
5	Uttar Pradesh	13665	12236	6567	6497
6	Uttarakhand	1960	1394	810	503
7	Himachal Pradesh	1544	1204	299	176
8	Jammu & Kashmir	2112	2202	516	604
9	Chandigarh	260	140	0	0
10	ISGS/IPPs	27	26	18491	11987
	Total NR	51618	43457	39279	32394
II	EASTERN REGION				
1	Bihar	4731	3187	178	180
2	Jharkhand	1235	964	408	392
3	Damodar Valley Corporation	3087	2823	4391	3825
4	Orissa	4306	2951	3367	2300
5	West Bengal	6534	5471	5044	3982
6	Sikkim	229	292	0	0
7	Bhutan	182	173	201	281
8	ISGS/IPPs	641	651	13217	10006
	Total ER	20946	16512	26805	20966
III	WESTERN REGION				
1	Maharashtra	19845	14168	15665	10912
2	Gujarat	15423	12945	11430	9642
3	Madhya Pradesh	10953	7703	6725	3923
4	Chattisgarh	4485	3675	2280	2280
5	Daman and Diu	342	277	0	0
6	Dadra and Nagar Haveli	854	750	0	0
7	Goa-WR	563	361	0	0
8	ISGS/IPPs	5421	4457	41073	35927
	Total WR	57886	44336	77173	62684

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	9149	7298	6374	5263
2	Telangana	11085	9400	4943	4643
3	Karnataka	10033	6255	7707	3862
4	Tamil Nadu	16685	13528	6897	5947
5	Kerala	4246	2882	1772	547
6	Pondy	335	287	0	0
7	Goa-SR	66	56	0	0
8	ISGS/IPPs	0	0	18175	12179
	Total SR	51599	39706	45868	32442
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	145	90	8	8
2	Assam	1654	1173	244	216
3	Manipur	206	88	0	0
4	Meghalaya	293	193	243	106
5	Mizoram	105	67	60	21
6	Nagaland	128	80	12	0
7	Tripura	225	135	75	77
8	ISGS/IPPs	136	83	2107	1648
	Total NER	2891	1909	2749	2076
	Total All India	184940	145920	191873	150561