National Load Despatch Centre Total Transfer Capability for April 2020

Issue Date: 31st March 2020 Issue Time: 1300 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		
	1st April 2020	00-06				195	1805				
NR-WR*	to 30th April	06-18	2500	500	2000	250	1750				
	2020	18-24				195	1805				
		00-06	16150 15200**	500	15650 14700**	10219 9269**	5431				
WR-NR*	1st April 2020 to 30th April 2020	06-18	16150 15200**	500	15650 14700**	10608 9658**	5042				
		18-24	16150 15200**	500	15650 14700**	10219 9269**	5431				
	1st April 2020	00-06	2000		1800	193	1607				
NR-ER*	to 30th April 2020	06-18 18-24	2000 2000	200	1800 1800	303 193	1497 1607				
ER-NR*	1st April 2020 to 30th April 2020	00-24	5250	300	4950	4050	900				
W3-ER	1st April 2020 to 30th April 2020	00-24		No limit is being specified.							
ER-W3	1st April 2020 to 30th April 2020	00-24				No limit is l	being specified.				
	1st April 2020	00-05	6950		6450		2415				
WR-SR	to 30th April 2020	05-22 22-24	6950 6950	500	6450 6450	4035	2415 2415				
SR-WR*	1st April 2020 to 30th April 2020	00-24	0,50		0430	No limit is b	peing Specified.				
		00-06				2663	2737	-300			
	1st April 2020 to 5th April	06-18	5650	250	5400	2748	2652	-300	Reduction in TTC/ATC due to forced outage of 400/220 KV ICT-II		
ED GD	2020	18-24				2663	2737	-300	at Jeypore		
ER-SR	6th April 2020	00-06				2663	3037				
	to 30th April	06-18	5950	250	5700	2748	2952				
	2020	18-24				2663	3037				
SR-ER *	1st April 2020 to 30th April 2020	00-24			No limit is being Specified.						

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		00-02	1330		1285	289	996			
		02-07	1330		1285	289	996			
		07-12	1330		1285	334	951			
	1st April 2020	12-17	1330		1285	334	951			
ER-NER	to 30th April	17-18	1330	45	1285	334	951			
	2020	18-22	1120		1075	289	786			
		22-23	1330		1285	289	996			
		23-24	1330		1285	289	996			
		00-02	2110		2065	209	2065			
		02-07	2110	-	2065	0	2065			
		07-12	2110		2065		2065			
	1st April 2020									
NER-ER	to 30th April	12-17	2110	45	2065		2065			
	2020	17-18	2110		2065		2065			
		18-22	2400		2355		2355			
		22-23	2110		2065		2065			
		23-24	2110		2065		2065			
W3 zone Injection	1st April 2020 to 30th April 2020	00-24	No limit is being	To 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 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.

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
		00-06	21400 20450**		20600 19650**	14269 13319**	6331		
		21400 06-09 20450**	20600	14658	5942				
NR	1st April 2020 to 30th April 2020	09-17	21400 20450**	800	20600 19650**	14658 13708**	5942		
		17-18	21400 20450**		20600 19650**	14658 13708**	5942		
		18-24	21400 20450**		20600 19650**	14269 13319**	6331		
		00-02	1330		1285	289	996		
		02-07	1330		1285	289	996		
	1st April 2020	07-12	1330		1285	334	951		
NER	to 30th April	12-17	1330	45	1285	334	951		
I VEI	2020	17-18	1330	43	1285	334	951		
	2020	18-22	1120		1075	289	786		
		22-23	1330		1285	289	996		
TYP		23-24	1330		1285	289	996		
WR	1st April 2020	00.06	12600		11050	6609	5150	200	Reduction in TTC/ATC due to
	to 5th April	00-06 06-18	12600 12600	750	11850 11850	6698 6783	5152 5067	-300 -300	forced outage of 400/220 KV ICT-
	2020	18-24	12600	130	11850	6698	5152	-300	II at Jeypore
SR	6th April 2020	00-06	12900		12150	6698	5452	-300	II at Jeypore
	to 30th April	06-18	12900	750	12150	6783	5367		†
	2020	18-24	12900	,,,,	12150	6698	5452		†
						~~~~			

^{*} 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).

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.

^{**}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 exbus 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:

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
	1st April 2020	00-06	4500		3800	388	3412		
NR*	to 30th April 2020	06-18	4500	700	3800	553	3247		
		18-24	4500		3800	388	3412		
	1st April 2020 to 30th April 2020	00-02	2110	45	2065	0	2065		
		02-07	2110		2065		2065		
		07-12	2110		2065		2065		
NER		12-17	2110		2065		2065		
NEK		17-18	2110		2065		2065		
	2020	18-22	2400		2355		2355		
		22-23	2110		2065		2065		
		23-24	2110		2065		2065		
WR									·
****									
SR*	1st April 2020 to 30th April 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)	
		<b>Applicable Revisions</b>
Corridor	Constraint	
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 4
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 4
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 to 4
	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0 to 1
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0 to 1
WR-SR	Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 1
and ER-	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	
SR	n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt	Rev- 2 to 4
	Low Voltage at Gazuwaka (East) Bus.	
	Overloading of 400/220 kV ICT - I at Jeypore in case of tripping of 400 kV Jeypore - Indravati line	Rev -4
ER-NER	<ul> <li>a) N-1 contingency of 400 kV Bongaigaon - Azara line</li> <li>b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)</li> </ul>	Rev- 0 to 4
NER-ER	<ul> <li>a) N-1 contingency of 400 kV Silchar- Azara line</li> <li>b) High Loading in Meghalya Internal Power System</li> </ul>	Rev- 0 to 4
W3 zone Injection		Rev- 0 to 4

## **Limiting Constraints (Simultaneous)**

			Applicable Revisions	
	Import	<ol> <li>N-1 contingencies of 400 kv Mejia-Maithon A S/C</li> <li>N-1 contingencies of 400 kv Kahalgaon-Banka S/C</li> <li>N-1 contingencies of 400kV MPL- Maithon S/C</li> </ol>	Rev- 0 to 4	
NR		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 4	
	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 4	
NER	Import	<ul> <li>a) N-1 contingency of 400 kV Bongaigaon - Azara line</li> <li>b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)</li> </ul>	Rev- 0 to 4	
	Export	<ul><li>a) N-1 contingency of 400 kV Silchar- Azara line</li><li>b) High Loading in Meghalya Internal Power System</li></ul>	Rev- 0 to 4	
		n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0 to 1	
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev- 0 to 1	
SR	Import	Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 1	
		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	Rev- 2 to 4	
		Low Voltage at Gazuwaka (East) Bus		
		Overloading of 400/220 kV ICT - I at Jeypore in case of tripping of 400 kV Jeypore - Indravati line	Rev -4	

## National Load Despatch Centre Total Transfer Capability for April 2020

Revision	Date of	Period of	Reason for Revision/Comment	Corridor
No	Revision	Revision	Reason for Revision/Comment	Affected
			TTC/ATC revised after commissioning of HVDC Champa - Kurukshetra Pole 3	
			Revised STOA Margin due to the following:-	
1	28th January	Whole Month	a) Operationalization of 200 MW LTA from SBG Cleantech Project Co. Five Pvt. Ltd. (SR-Pavagada) to UPPCL	WR-NR/Import
	2020	Whole Worth	b) Revision in LTA quantum from GIWEL_SECI-III_RE (Wind, Bhuj) to Punjab from 117.6 MW to 149.8 MW	of NR
			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	
2	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
			1) Revision in STOA margin due to the following:- a) Operationalization of 50 MW LTA from AGEMPL (Wind, Bhuj) to Punjab b) Completion of 108 MW MTOA from SKS to NPCL (UP)  2) Revision in TTC/ATC due to change in inter-regional flow pattern towards NR.	WR-NR/NR Import
3	30th March 2020	Whole Month	Revision in TTC/ATC due to the following:-  a) Long Outage of Palatana Module-1  b) Addition of 400/220/33 kV, 315 MVA ICT-I at BgTPP  c) Addition of 132 kV Imphal (PG)-Imphal (MA) III  d) Change in Load-Generation of NER	ER-NER/NER- ER/Import & Export of NER
4	31st March 2020	1st April 2020 to 5th April 2020	Reduction in TTC/ATC due to forced outage of 400/220 KV ICT-II at Jeypore	ER-SR/Import of SR

7100011	IPTIONS IN BASECASE					
				Month : April'2020		
S.No.	Name of State/Area		Load	Genera		
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW	
I	NORTHERN REGION					
1	Punjab	7702	5968	3522	3309	
2	Haryana	7390	5329	1651	1644	
3	Rajasthan	10786	12134	7086	6433	
4	Delhi	5679	4623	675	672	
5	Uttar Pradesh	15431	12731	7254	7153	
6	Uttarakhand	1890	1382	863	719	
7	Himachal Pradesh	1538	1190	497	403	
8	Jammu & Kashmir	2284	1832	666	665	
9	Chandigarh	245	138	0	0	
10	ISGS/IPPs	26	26	19364	13442	
	Total NR	52970	45353	41579	34441	
Ш	EASTERN REGION					
1	Bihar	4746	3177	199	180	
2	Jharkhand	1311	973	398	392	
3	Damodar Valley Corporation	3060	2794	4745	3825	
4	Orissa	4367	2850	3448	2012	
5	West Bengal	8390	6304	5508	4242	
6	Sikkim	225	289	0	0	
7	Bhutan	178	166	599	621	
8	ISGS/IPPs	645	658	13028	9892	
	Total ER	22920	17213	27924	21164	
III	WESTERN REGION					
1	Maharashtra	19910	16269	15889	13274	
2	Gujarat	15541	13625	10105	9068	
3	Madhya Pradesh	9082	7924	4221	4438	
4	Chattisgarh	4306	3862	2109	2200	
5	Daman and Diu	339	297		0	
5 6		861	749	0	0	
7	Dadra and Nagar Haveli Goa-WR	608	422	0	0	
8	ISGS/IPPs	5337	422 4740	41352	37204	
O	Total WR	5337 55984	4740 47888	73676	66185	

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	9378	6005	6407	4555	
2	Telangana	9553	8086	5070	4644	
3	Karnataka	10414	8713	7716	5927	
4	Tamil Nadu	16572	14843	7184	6247	
5	Kerala	4222	2854	1689	581	
6	Pondy	331	278	0	0	
7	Goa-SR	65	54	0	0	
8	ISGS/IPPs	0	0	18268	12179	
	Total SR	50536	40832	46333	34134	
V	NORTH-EASTERN REGION					
1	Arunachal Pradesh	122	88	8	8	
2	Assam	1650	1087	217	216	
3	Manipur	161	69	0	0	
4	Meghalaya	337	224	66	106	
5	Mizoram	90	46	0	21	
6	Nagaland	86	73	0	0	
7	Tripura	431	365	77	77	
8	ISGS/IPPs	82	80	1665	1648	
	Total NER	2959	2032	2034	2076	
	Total All India	185370	153319	191547	157999	