

National Load Despatch Centre
Total Transfer Capability for February 2020

Issue Date: 07th February 2020

Issue Time: 1230 hrs

Revision No. 8

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 February 2020 to 29th February 2020	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st February 2020 to 5th February 2020	00-06	14900	500	14400	10275	4125		
			13950**		13450**	9325**	4125**		
		06-18	14900	14400	10664	3736			
			13950**	13450**	9714**	3736**			
		18-24	14900	14400	10275	4125			
			13950**	13450**	9325**	4125**			
	6th February	00-07	16150	500	15650	10275	5375		
			15200**		14700**	9325**	5375**		
		07-24	13650	13150	10275	2875			
	7th February 2020 to 20th February 2020	00-24	12700**	500	12200**	9325**	2875**		
			13650		13150	10275	2875		
	21st February 2020 to 29th February 2020	00-06	16150	500	15650	10275	5375		
15200**			14700**		9325**	5375**			
06-18		16150	15650	10664	4986				
		15200**	14700**	9714**	4986**				
18-24	16150	15650	10275	5375					
	15200**	14700**	9325**	5375**					
NR-ER*	1st February 2020 to 29th February 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st February 2020 to 29th February 2020	00-24	5250	300	4950	4050	900		
W3-ER	1st February 2020 to 29th February 2020	00-24	No limit is being specified.						
ER-W3	1st February 2020 to 29th February 2020	00-24	No limit is being specified.						
WR-SR	1st February 2020 to 04th February 2020	00-05	6950	500	6450	4035	2415		
		05-22	6950		6450		2415		
		22-24	6950		6450		2415		
	5th February 2020 and 6th February 2020	00-05	6950	500	6450	4035	2415		
			05-730		6950		6450	2415	
		730-22	6000		5500		1465		
		22-24	6000		5500		1465		
	7th February 2020 to 29th February 2020	00-05	6950	500	6450	4035	2415		
			05-22		6950		6450	2415	
22-24		6950	6450		2415				

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SR-WR *	1st February 2020 to 07th February 2020	00-24	No limit is being Specified.								
ER-SR	01st February 2020 to 07th February 2020	00-06	5950	250	5700	2663	3037				
		06-18								2748	2952
		18-24								2663	3037
ER-SR	08th February 2020	00-06	5950	250	5700	2663	3037	-300	Revised due to shutdown of 400kV Angul-Bolangir line.		
		06-830								2748	2952
		830-18	5650		5400	2748	2652				
		18-24								2663	2737
ER-SR	09th February 2020 to 29th February 2020	00-06	5950	250	5700	2663	3037				
		06-18								2748	2952
		18-24								2663	3037
SR-ER *	1st February 2020 to 29th February 2020	00-24	No limit is being Specified.								
ER-NER	1st February 2020 to 29th February 2020	00-17	1570	45	1525	334	1191				
		17-23	1150		1105		771				
		23-24	1570		1525		1191				
NER-ER	1st February 2020 to 29th February 2020	00-17	2770	45	2725	0	2725				
		17-23	2700		2655		2655				
		23-24	2770		2725		2725				
W3 zone Injection	1st February 2020 to 29th February 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) KWPC, 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 commissioned 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.

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<p>In case of TTC Revision due to any shutdown :</p> <p>1) The TTC value will be revised to normal values after restoration of shutdown.</p> <p>2) The TTC value will be revised to normal values if the shutdown is not being availed in real time.</p> <p>Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section</p> <p>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.</p> <p>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.</p>									

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 February 2020 to 5th February 2020	00-06	20400	800	19600	14325	5275		
			19450**		18650**	13375**			
		06-09	21900		21100	14714	6386		
			20950**		20150**	13764**			
		09-17	20400		19600	14714	4886		
			19450**		18650**	13764**			
	17-18	19850	19050	14714	4336				
		18900**	18100**	13764**					
	18-24	19850	19050	14325	4725				
		18900**	18100**	13375**					
	6th February 2020	00-06	22100	21300	14325	6975			
			21150**	20350**	13375**				
		06-07	23750	22950	14714	8236			
			22800**	22000**	13764**				
		07-09	20050	19250	14714	4536			
			19100**	18300**	13764**				
	09-17	18700	17900	14714	3186				
		17750**	16950**	13764**					
17-18	18200	17400	14714	2686					
	17250**	16450**	13764**						
18-24	18200	17400	14325	3075					
	17250**	16450**	13375**						
7th February 2020 to 20th February 2020	00-06	18700	17900	14325	3575				
		17750**	16950**	13375**					
	06-09	20050	19250	14714	4536				
		19100**	18300**	13764**					
	09-17	18700	17900	14714	3186				
		17750**	16950**	13764**					
17-18	18200	17400	14714	2686					
	17250**	16450**	13764**						
18-24	18200	17400	14325	3075					
	17250**	16450**	13375**						

NR	21st February 2020 to 29th February 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 February 2020 to 29th February 2020		00-17	1570	45	1525	334
17-23	1150			1105	771				
23-24	1570			1525	1191				
WR									
SR	1st February 2020 to 4th February 2020	00-06	12900	750	12150	6698	5452		
		06-18	12900		12150	6783	5367		
		18-24	12900		12150	6698	5452		
	5th February 2020 and 6th February 2020	00-06	12900	750	12150	6698	5452		
		06-730	12900		12150	6698	5452		
		730-18	11950		11200	6783	4417		
	7th February 2020	18-24	11950	750	11200	6698	4502		
		00-06	12900		12150	6698	5452		
		06-18	12900			6783	5367		
	8th February 2020	18-24	12900	750	12150	6698	5452		
		00-06	12900		12150	6698	5452		
		06-830	12900			6783	5367		
		830-18	12600		11850	6783	5067	-300	Revised due to shutdown of 400kV Angul-Bolangir line.
	18-24	12600	11850	6698	5152				
	9th February 2020 to 29th February 2020	00-06	12900	750	12150	6698	5452		
06-18		12900	12150		6783	5367			
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).

**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.

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 February 2020 to 29th February 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st February 2020 to 29th February 2020	00-17	2770	45	2725	0	2725		
		17-23	2700		2655		2655		
		23-24	2770		2725		2725		
WR									
SR *	1st February 2020 to 29th February 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 overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 8
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 8
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 8
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 to 4
	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- 5-8
	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	N-1 contingency of 400 kV Silcher - Azara will lead to high Loading of 400 kV Silcher Killing Line	Rev- 0 to 4
	a) N-1 contingency of 400 kV Azara-Bongaigaon b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 5- to 8
NER-ER	N-1 contingency of 400 kV Bongaigaon - Alipurduar I/II will lead to high Loading of 400 kV Silchar-Killing line	Rev- 0 to 4
	a) N-1 contingency of 400 kV Silchar- Azara b) High Loading of 400 kV Silchar-Killing line	Rev- 5 to 8
W3 zone Injection	---	Rev- 0 to 8

Limiting Constraints (Simultaneous)

		Constraint	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 to 8
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 8
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 8
		(n-1) contingency of 400 kV Saranath-Pusauli	
NER	Import	N-1 contingency of 400 kV Silcher - Azara will lead to high Loading of 400 kV Silcher Killing Line	Rev- 0 to 4
		a) N-1 contingency of 400 kV Azara-Bongaigaon b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)	Rev- 5 to 8
	Export	N-1 contingency of 400 kV Bongaigaon - Alipurduar I/II will lead to high Loading of 400 kV Silchar-Killing line	Rev- 0 to 4
		a) N-1 contingency of 400 kV Silchar- Azara b) High Loading of 400 kV Silchar-Killing line	Rev- 5 to 8
SR	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev- 0 to 4
		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- 5 to 8
		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	18th November 2019	Whole Month	Revised STOA margin due to 4.2 MW LTA and 19.76 MW MTOA to Assam from GIWEL	ER-NER/Import of NER
2	29th November 2019	Whole Month	Revised STOA margin due to the following. Operationalization of following LTAs:- a) AGEMPL to UPPCL – 40 MW b) GIWEL_SECI-III_RE to Punjab – 112 MW c) SEISPPL_MP to TPDDL – 90 MW Revision in LTA quantum of following:- a) INOX to UPPCL – 100 MW to 50 MW b) RPL-SECI-II-RE to UPPCL – 34.5 MW to 73.8 MW c) RPL-SECI-II-RE to Punjab – 73.8 MW to 100 MW	WR-NR/Import of NR
3	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
4	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
5	31st January 2020	1st Feb 2020 to 5th Feb 2020	Reduction in TTC/ATC due to planned outage of HVDC Champa - Kurukshetra Pole - 3	WR-NR/Import of NR
		Whole Month	Increment in TTC/ATC after commissioning of 765 kV Vemagiri - C'peta D/C	WR-SR/ER-SR and Import of SR
		Whole Month	Revision in TTC/ATC due to the following:- a) Addition of 400/220/33 kV, 315 MVA ICT-I at BgTPP b) Addition of 132 kV Imphal (PG)-Imphal (MA) III Line c) Change in Load-Generation of NER.	ER-NER/NER-ER/Import and Export of NER
6	4th Feb 2020	5th Feb 2020 to 6th Feb 2020	Revised due to shutdown of 765kV Sholapur-Raichur-2 on daily basis	WR-SR/Import of SR
7	4th Feb 2020	6th Feb 2020 to 20th Feb 2020	Revised TTC due to planned shutdown of HVDC Champa Kurukshetra Pole-1 and pole-2 for Pole-4 Commissioning works	WR-NR/Import of NR
8	7th Feb 2020	8th Feb 2020	Revised due to shutdown of 400kV Angul-Bolangir line.	ER-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : February'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	7599	5890	3210	3062
2	Haryana	7641	6234	1734	1734
3	Rajasthan	12211	13190	7832	7917
4	Delhi	4871	3148	718	718
5	Uttar Pradesh	15022	11878	7291	7060
6	Uttarakhand	1932	1740	795	516
7	Himachal Pradesh	1611	1299	326	185
8	Jammu & Kashmir	2312	1548	629	582
9	Chandigarh	280	169	0	0
10	ISGS/IPPs	27	26	18744	12493
	Total NR	53505	45123	41277	34265
II	EASTERN REGION				
1	Bihar	4630	3169	180	180
2	Jharkhand	1157	921	362	319
3	Damodar Valley Corporation	2639	2767	4562	3775
4	Orissa	4109	2919	3433	2328
5	West Bengal	7089	5422	4922	3829
6	Sikkim	228	289	0	0
7	Bhutan	181	171	336	281
8	ISGS/IPPs	642	653	13227	9896
	Total ER	20675	16312	27020	20608
III	WESTERN REGION				
1	Maharashtra	18648	11525	14482	8429
2	Gujarat	14855	11988	9621	8308
3	Madhya Pradesh	11528	7570	4796	3561
4	Chattisgarh	4163	2967	2130	1960
5	Daman and Diu	334	281	0	0
6	Dadra and Nagar Haveli	819	727	0	0
7	Goa-WR	539	382	0	0
8	ISGS/IPPs	5215	4041	42739	34520
	Total WR	56100	39479	73768	56778

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	9394	7471	6562	5263
2	Telangana	11208	9167	5151	4651
3	Karnataka	9983	6396	7776	3862
4	Tamil Nadu	15174	12676	6747	5897
5	Kerala	3993	2952	1557	690
6	Pondy	334	294	0	0
7	Goa-SR	65	58	0	0
8	ISGS/IPPs	0	0	17375	12129
	Total SR	50152	39014	45168	32492
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	144	89	0	0
2	Assam	1538	1084	234	206
3	Manipur	187	93	0	0
4	Meghalaya	331	202	200	115
5	Mizoram	105	67	32	20
6	Nagaland	125	79	12	0
7	Tripura	210	128	99	99
8	ISGS/IPPs	0	0	2016	1619
	Total NER	2640	1742	2593	2058
	Total All India	183654	142178	190386	146626