National Load Despatch Centre
Total Transfer Capability for February 2020

Issue Date: 04th February 2020 Issue Time: 1830 hrs Revision No. 7

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 13950**	500	14400 13450**	10275 9325**	4125 4125**		
		06-18	14900 13950**	500	14400 13450**	10664 9714**	3736 3736**		
		18-24	14900 13950**	500	14400 13450**	10275 9325**	4125 4125**		
	6th February	00-07	16150 15200**	500	15650 14700**	10275 9325**	5375 5375**		
		07-24	13650 12700**	500	13150 12200**	10275 9325**	2875 2875**	-2500	Revised TTC due to planned shutdown of HVDC Champa Kurukshetra Pole-1 and pole-2 for Pole-4 Commissioning works
	7th February 2020 to 20th February 2020	00-24	13650 12700**	500	13150 12200**	10275 9325**	2875 2875**	-2500	
	21st February 2020 to 29th February 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 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		Revised due to shutdown of 765kV Sholapur-Raichur-2 on daily basis
		730-22	6000		5500		1465	-950	
		22-24	6000		5500		1465	-950	
	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 29th February 2020	00-24	No limit is being Specified.						

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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
ER-SR	1st 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) 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.

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 19450**	800	19600 18650**	14325 13375**	5275		
		06-09	21900 20950**		21100 20150**	14714 13764**	6386		
		09-17	20400 19450**		19600 18650**	14714 13764**	4886		
		17-18	19850 18900**		19050 18100**	14714 13764**	4336		
		18-24	19850 18900**		19050 18100**	14325 13375**	4725		
	6th February 2020	00-06	22100 21150**	800	21300 20350**	14325 13375**	6975		
		06-07	23750 22800**		22950 22000**	14714 13764**	8236		
		07-09	20050 19100**		19250 18300**	14714 13764**	4536	-3700	Revised TTC due to planned shutdown of HVDC Champa Kurukshetra Pole-1 and pole-2 for Pole-4 Commissioning works
		09-17	18700 17750**		17900 16950**	14714 13764**	3186	-3400	
		17-18	18200 17250**		17400 16450**	14714 13764**	2686	-3350	
		18-24	18200 17250**		17400 16450**	14325 13375**	3075	-3350	
	7th February 2020 to 20th February 2020	00-06	18700 17750**	800	17900 16950**	14325 13375**	3575	-3400	Revised TTC due to planned shutdown of HVDC Champa Kurukshetra Pole-1 and pole-2 for Pole-4 Commissioning works
		06-09	20050 19100**		19250 18300**	14714 13764**	4536	-3700	
		09-17	18700 17750**		17900 16950**	14714 13764**	3186	-3400	
		17-18	18200 17250**		17400 16450**	14714 13764**	2686	-3350	
		18-24	18200 17250**		17400 16450**	14325 13375**	3075	-3350	

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	1191		
		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		Revised due to shutdown of 765kV Sholapur-Raichur-2 on daily basis
		06-730	12900		12150	6698	5452		
		730-18	11950		11200	6783	4417	-950	
		18-24	11950		11200	6698	4502	-950	
	7th 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 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.

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 overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 7
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 7
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 7
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- 5-6
	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 7
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 7
W3 zone Injection	---	Rev- 0 to 5

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 to 7
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 7
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 7
		(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 7
	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 7
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 7
		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

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