

National Load Despatch Centre
Total Transfer Capability for February 2020

Issue Date: 18th November 2019

Issue Time: 1630 hrs

Revision No. 1

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 29th February 2020	00-24	14900	500	14400	10099	4301		
			13950**		13450**	9149**	4301**		
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 29th February 2020	00-05	5550	500	5050	4035	1015		
		05-22	5550		5050		1015		
		22-24	5550		5050		1015		
SR-WR *	1st February 2020 to 29th February 2020	00-24	No limit is being Specified.						
ER-SR	1st February 2020 to 29th February 2020	00-06	4950	250	4700	2663	2037		
		06-18				2748	1952		
		18-24				2663	2037		
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	1260	45	1215	334	881		Revised STOA margin due to 4.2 MW LTA and 19.76 MW MTOA to Assam from GIWEL
		17-23	1080		1035		701		
		23-24	1260		1215		881		
NER-ER	1st February 2020 to 29th February 2020	00-17	2400	45	2355	0	2355		
		17-23	2450		2405		2405		
		23-24	2400		2355		2355		

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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) KWPCCL, n)Vandana Vidyut o)RKM, p)GMR Raikhedra, 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.

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.

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 29th February 2020	00-06	20400 19450**	800	19600 18650**	14149 13199**	5451 5451**		
		06-09	21900 20950**		21100 20150**		6951 6951**		
		09-17	20400 19450**		19600 18650**		5451 5451**		
		17-24	19850 18900**		19050 18100**		4901 4901**		
NER	1st February 2020 to 29th February 2020	00-17	1260	45	1215	334	881		Revised STOA margin due to 4.2 MW LTA and 19.76 MW MTOA to Assam from GIWEL
		17-23	1080		1035		701		
		23-24	1260		1215		881		
WR									
SR	1st February 2020 to 29th February 2020	00-06	10500	750	9750	6698	3052		
		06-18	10500		9750	6783	2967		
		18-24	10500		9750	6698	3052		

* 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 = $A * C / (B+C)$

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	2400	45	2355	0	2355		
		17-23	2450		2405		2405		
		23-24	2400		2355		2355		
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).

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 1
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 1
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 1
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 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
	Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 1
ER-NER	N-1 contingency of 400 kV Silcher - Azara will lead to high Loading of 400 kV Silcher Killing Line	Rev- 0 to 1
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 1
W3 zone Injection	---	Rev- 0 to 1

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 1
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 1
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 1
		(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 1
	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 1
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 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
		Low Voltage at Gazuwaka (East) Bus.	Rev- 0 to 1

**National Load Despatch Centre
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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

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/PPs	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/PPs	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/PPs	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