

National Load Despatch Centre
Total Transfer Capability for February 2019

Issue Date: 28th October 2018

Issue Time: 1600 hrs

Revision No. 0

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 2019 to 28th February 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st February 2019 to 28th February 2019	00-24	12250	500	11750	9235	2515		
			11300**		10800**	8285**	2515**		
NR-ER*	1st February 2019 to 28th February 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st February 2019 to 28th February 2019	00-24	5250	300	4950	3892	1058		
W3-ER	1st February 2019 to 28th February 2019	00-24	No limit is being specified.						
ER-W3	1st February 2019 to 28th February 2019	00-24	No limit is being specified.						
WR-SR	1st February 2019 to 28th February 2019	00-05	5150	500	4650	4535	115		
		05-22	5150		4650		115		
		22-24	5150		4650		115		
SR-WR *	1st February 2019 to 28th February 2019	00-24	No limit is being Specified.						
ER-SR	1st February 2019 to 28th February 2019	00-06	4350	250	4100	2762	1338		
		06-18				2847	1253		
		18-24				2762	1338		
SR-ER *	1st February 2019 to 28th February 2019	00-24	No limit is being Specified.						
ER-NER	1st February 2019 to 28th February 2019	00-17	1250	45	1205	225	980		
		17-23	1110		1065		840		
		23-24	1250		1205		980		
NER-ER	1st February 2019 to 28th February 2019	00-17	2030	45	1985	0	1985		
		17-23	2100		2055		2055		
		23-24	2030		1985		1985		

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W3 zone Injection	1st February 2019 to 28th February 2019	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
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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 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.

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
ER									
NR	1st February 2019 to 28th February 2019	00-18	17500 16550**	800	16700 15750**	13127 12177**	3573 3573**		
		18-23	15700 14750**		14900 13950**		1773 1773**		
		23-24	17500 16550**		16700 15750**		3573 3573**		
NER	1st February 2019 to 28th February 2019	00-17	1250	45	1205	225	980		
		17-23	1110		1065		840		
		23-24	1250		1205		980		
WR									
SR	1st February 2019 to 28th February 2019	00-05	9500	750	8750	7297	1453		
		05-06	9500		8750	7297	1453		
		06-18	9500		8750	7382	1368		
		18-22	9500		8750	7297	1453		
		22-24	9500		8750	7297	1453		

* 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 2019 to 28th February 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st February 2019 to 28th February 2019	00-17	2030	45	1985	0	1985		
		17-23	2100		2055		2055		
		23-24	2030		1985		1985		
WR									
SR *	1st February 2019 to 28th February 2019	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)

		Applicable Revisions
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0
WR-NR	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0
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
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
	Low Voltage at Gazuwaka (East) Bus.	Rev-0
ER-NER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0
W3 zone Injection	---	Rev-0

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
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
	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
NER	Import	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0
SR	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0
		Low Voltage at Gazuwaka (East) Bus.	Rev-0

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected

ASSUMPTIONS IN BASECASE					
				Month : February'19	
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	7631	5772	3251	3146
2	Haryana	7632	5724	2416	2391
3	Rajasthan	10162	9776	5870	5810
4	Delhi	4284	2411	541	535
5	Uttar Pradesh	13764	12749	6360	6225
6	Uttarakhand	1805	1059	722	371
7	Himachal Pradesh	1447	430	204	27
8	Jammu & Kashmir	2034	1268	292	235
9	Chandigarh	241	122	0	0
10	ISGS/IPPs	30	30	18516	9378
	Total NR	49030	39342	38172	28120
II	EASTERN REGION				
1	Bihar	3735	2405	351	207
2	Jharkhand	970	758	360	223
3	Damodar Valley Corporation	2950	2695	5233	4381
4	Orissa	3969	3029	2364	1707
5	West Bengal	6784	4742	5378	4065
6	Sikkim	104	102	0	0
7	Bhutan	207	199	643	643
8	ISGS/IPPs	1120	1112	12272	9164
	Total ER	19839	15041	26600	20390
III	WESTERN REGION				
1	Maharashtra	17960	12988	12516	9289
2	Gujarat	13475	11417	8764	7972
3	Madhya Pradesh	10868	6191	5106	4336
4	Chattisgarh	3606	2644	2248	1867
5	Daman and Diu	324	287	0	0
6	Dadra and Nagar Haveli	793	707	0	0
7	Goa-WR	522	327	0	0
8	ISGS/IPPs	4337	3466	37969	26997
	Total WR	51885	38026	66603	50461

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	8132	7088	6103	4712
2	Telangana	9743	8088	4823	4423
3	Karnataka	10431	7051	7633	5219
4	Tamil Nadu	14513	10993	6958	5513
5	Kerala	3871	2460	1678	402
6	Pondy	329	347	0	0
7	Goa-SR	74	78	0	0
8	ISGS/IPPs	0	0	14302	12230
	Total SR	47093	36106	41497	32500
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	133	76	0	0
2	Assam	1233	1073	185	142
3	Manipur	162	100	0	0
4	Meghalaya	301	215	197	96
5	Mizoram	90	67	8	8
6	Nagaland	115	74	12	12
7	Tripura	198	193	72	74
8	ISGS/IPPs	116	116	1902	1449
	Total NER	2348	1913	2376	1781
	Total All India	170195	130428	175247	133253