

**National Load Despatch Centre  
Total Transfer Capability for February 2019**

Issue Date: 22nd February 2019

Issue Time: 1700 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 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 21st February 2019	00-24	13250 12300**	500	12750 11800**	9383 8433**	3367 3367**		
	22nd February 2019	00-730'	13250 12300**	500	12750 11800**	9383 8433**	3367 3367**		
		730-24	11650 10700**	500	11150 10200**	9383 8433**	1767 1767**		
	23rd February 2019 to 28th February 2019	00-24	13250 12300**	500	12750 11800**	9383 8433**	3367 3367**		
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 23rd February 2019	00-05	5550	500	5050	4435	615		
		05-22	5550		5050		615		
		22-24	5550		5050		615		
	24th February 2019	00-05	5550	500	5050	4435	615		Revised due to simultaneous shutdown of 400kV Ramagundam-Bhadrawati -1 and 2
		05-22	4550		4050		0	-1000	
		22-24	4550		4050		0	-1000	
	25th February 2019 to 28th February 2019	00-05	5550	500	5050	4435	615		
		05-22	5550		5050		615		
		22-24	5550		5050		615		
SR-WR *	1st February 2019 to 28th February 2019	00-24	No limit is being Specified.						
ER-SR	1st February 2019	00-06	3950	250	3700	2762	938		
		06-18				2847	853		
		18-24				2762	938		
	02nd February 2019	00-05	3950	250	2700	2762	938		
		05-06	2950			2762	0		
		06-18				2847	0		
		18-24				2762	0		

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ER-SR	3rd February 2019 to 04th February 2019	00-06	2950	250	2700	2762	0				
		06-18				2847	0				
		18-24				2762	0				
	05th February 2019 to 06th February 2019	00-06	3950	250	3700	2762	938				
		06-18				2847	853				
		18-24				2762	938				
	07th February 2019 to 28th February 2019	00-06	4950	250	4700	2762	1938				
		06-18				2847	1853				
		18-24				2762	1938				
SR-ER *	1st February 2019 to 28th February 2019	00-24	No limit is being Specified.								
ER-NER	1st February 2019	00-17	1280	45	1235	225	1010				
		17-23	1450				1405			1180	
		23-24	1280				1235			1010	
	2nd February 2019	00-08	1280	45	1025	225	1010				
		08-17	1070				1115			800	
		17-23	1160				1025			890	
	23-24	1070	1025	800							
		3rd February 2019 to 17th February 2019	00-17	1280	45	1235	225	1010			
			17-23	1450				1405			1180
	23-24		1280	1235				1010			
	18th February 2019	00-08	1280	45	785	225	1010				
		08-17	830				1025			560	
		17-23	1070				785			800	
	23-24	830	785	560							
		19th February 2019	00-08	1280	45	785	225	1010			
			08-17	830				1025			560
	17-23		1070	785				800			
	23-24	830	785	560							
		20th February 2019 to 28th February 2019	00-17	830	45	785	225	560			
			17-23	1070				1025			800
	23-24		830	785				560			
	NER-ER	1st February 2019	00-17	1900	45	1855	0	1855			
			17-23	1830				1785			1785
			23-24	1900				1855			1855
2nd February 2019		00-08	1900	45	1445	0	1855				
		08-17	1490				1445			1445	
		17-23	1460				1415			1415	
23-24		1490	1445	1445							
		3rd February 2019 to 17th February 2019	00-17	1900	45	1855	0	1855			
			17-23	1830				1785			1785
23-24	1900		1855	1855							

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NER-ER	18th February 2019	00-08	1900	45	1855	0	1855		
		08-17	1530		1485		1485		
		17-23	1400		1355		1355		
		23-24	1530		1485		1485		
	19th February 2019	00-08	1900	45	1855	0	1855		
		08-17	1530		1485		1485		
		17-23	1400		1355		1355		
		23-24	1530		1485		1485		
	20th February 2019 to 28th February 2019	00-17	1530	45	1485	0	1485		
		17-23	1400		1355		1355		
		23-24	1530		1485		1485		
	<b>W3 zone Injection</b>	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)					

**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 21st February 2019	00-06	17650	800	16850	13275	3575		
			16700**		15900**		3575**		
		06-17	18900		18100		4825		
			17950**		17150**		4825**		
	22nd February 2019	00-06	17650	800	16850	13275	3575		
			16700**		15900**		3575**		
		06-730	18900		18100		4825		
			17950**		17150**		4825**		
	730-17	16650	15850	2575					
		15700**	14900**	2575**					
	23rd February 2019 to 28th February 2019	00-06	17650	800	16850	13275	3575		
			16700**		15900**		3575**		
06-17		18900	18100		4825				
		17950**	17150**		4825**				
17-24	17000	16200	2925						
	16050**	15250**	2925**						
NER	1st February 2019	00-17	1280	45	1235	225	1010		
			1450		1405		1180		
		23-24	1280		1235		1010		
	2nd February 2019	00-08	1280	45	1235	225	1010		
			1070		1025		800		
		17-23	1160		1115		890		
			1070		1025		800		
	3rd February 2019 to 17th February 2019	00-17	1280	45	1235	225	1010		
			1450		1405		1180		
		23-24	1280		1235		1010		

<b>NER</b>	18th February 2019	00-08	1280	45	1235	225	1010		
		08-17	830		785		560		
		17-23	1070		1025		800		
		23-24	830		785		560		
	19th February 2019	00-08	1280	45	1235	225	1010		
		08-17	830		785		560		
		17-23	1070		1025		800		
		23-24	830		785		560		
	20th February 2019 to 28th February 2019	00-17	830	45	785	225	560		
		17-23	1070		1025		800		
		23-24	830		785		560		
	<b>WR</b>								
<b>SR</b>	1st February 2019	00-06	9500	750	8750	7197	1553		
		06-18	9500		8750	7282	1468		
		18-24	9500		8750	7197	1553		
	02nd February 2019	00-05	9500	750	8750	7197	1553		
		05-06	8500		7750	7197	553		
		06-18	8500		7750	7282	468		
		18-24	8500		7750	7197	553		
	03rd February 2019 to 04th February 2019	00-06	8500	750	7750	7197	553		
06-18		8500	7750		7282	468			
18-24		8500	7750		7197	553			
05th February 2019 to 06th February 2019	00-06	9500	750	8750	7197	1553			
	06-18	9500		8750	7282	1468			
	18-24	9500		8750	7197	1553			
07th February 2019 to 23rd February 2019	00-06	10500	750	9750	7197	2553			
	06-18	10500		9750	7282	2468			
	18-24	10500		9750	7197	2553			
24th February 2019	00-05	10500	750	9750	7197	2553			
	05-06	9500		8750	7197	1553	-1000	Revised due to simultaneous shutdown of 400kV Ramagundam-Bhadrawati -1 and 2	
	06-18	9500		8750	7282	1468	-1000		
	18-24	9500		8750	7197	1553	-1000		
25th February 2019 to 28th February 2019	00-06	10500	750	9750	7197	2553			
	06-18	10500		9750	7282	2468			
	18-24	10500		9750	7197	2553			

\* 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
<b>NR*</b>	1st February 2019 to 28th February 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24			3800	388	3412		
<b>NER</b>	1st February 2019	00-17	1900	45	1855	0	1855		
		17-23	1830		1785		1785		
		23-24	1900		1855		1855		
	2nd February 2019	00-08	1900	45	1855	0	1855		
		08-17	1490		1445		1445		
		17-23	1460		1415		1415		
		23-24	1490		1445		1445		
	3rd February 2019 to 17th February 2019	00-17	1900	45	1855	0	1855		
		17-23	1830		1785		1785		
		23-24	1900		1855		1855		
	18th February 2019	00-08	1900	45	1855	0	1855		
		08-17	1530		1485		1485		
		17-23	1400		1355		1355		
		23-24	1530		1485		1485		
	19th February 2019	00-08	1900	45	1855	0	1855		
		08-17	1530		1485		1485		
		17-23	1400		1355		1355		
		23-24	1530		1485		1485		
	20th February 2019 to 28th February 2019	00-17	1530	45	1485	0	1485		
		17-23	1400		1355		1355		
		23-24	1530		1485		1485		
	<b>WR</b>								
	<b>SR *</b>	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)

Corridor	Constraint	Applicable Revisions
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak	Rev-0 to 8
<b>WR-NR</b>	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 2
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-3 to 6,8
	(n-1) Contingency of 765kV Aligarh-Gr.Noida leads to overloading of other 765/400kV ICT at Agra	Rev-7
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0 to 1
	RVO operation of HVDC Champa Kurukshetra Poles	Rev-2
	Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev - 2-8
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
<b>ER-NR</b>	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
<b>WR-SR and ER-SR</b>	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 8
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-1 to 8
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8
<b>ER-NER</b>	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa	Rev-0 to 8
	b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 8
<b>NER-ER</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 8
<b>W3 zone Injection</b>	---	Rev-0 to 8

### Limiting Constraints (Simultaneous)

		Applicable Revisions	
<b>NR</b>	<b>Import</b>	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 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 2
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev - 3 to 6,8
		(n-1) Contingency of 765kV Aligarh-Gr.Noida leads to overloading of other 765/400kV ICT at Agra	Rev-7
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0 to 1
		RVO operation of HVDC Champa Kurukshetra Poles	Rev-2
		Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-2-8
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
<b>NER</b>	<b>Import</b>	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa	Rev-0 to 8
		b. High loading of 220 kV Balipara-Sonabil line (200 MW)	Rev-0 to 8
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 8
<b>SR</b>	<b>Import</b>	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 8
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-1 to 8
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8



**National Load Despatch Centre  
Total Transfer Capability for February 2019**

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	26th Nov 2018	Whole Month	Revised considering (a) recent commissioning of 765 kV Jharsuguda - Dharamjaygarh 3&4, 765 kV Gadarwara - Warora PS D/C, 765 kV Warora PS - Parli D/C, LILO of Kurnool - Thirvualam D/C at Cuddapah, 400 kV Cuddapah-Hindupur D/C, Salem PS - Madhugiri PS S/C, 765 kV Dharamjaigarh - Champa S/C, 765 kV Champa-Raigarh S/C and 765 kV Sipat-Bilaspur ckt-3 and some other 400 kV lines	WR-SR/ER-SR/Import of SR
			Revised STOA margin due to operationalization of additional 20 MW LTA from OKWPL to UP discom	WR-NR/Import of NR
2	4th Jan 2019	Whole Month	Revised STOA margins due to: (i) Additional 20 MW LTA to Delhi from Ostro Kutch Wind Power Ltd (OKWPL) (ii) Operationalization of 108 MW MTOA from SKS Power Gen Ltd to Noida Power Company	WR-NR/Import of NR
			Revised TTC due to: (i) Change in load generation balance (ii) Commissioning of circuit 3 & 4 of 765 kV Angul Jharsuguda (iii) Prevailing pattern of load in downstream of 400/220 kV Maradam ICTs	ER-SR/WR-SR/Import of SR
3	28th Jan 2019	Whole Month	Revised TTC due to normalization of Champa Kurukshetra bipole	WR-NR/Import of NR
			Change in pattern of inter-regional flow towards NR	Import of NR
			Revised STOA margin due to termination of 100 MW MTOA from LANCO Anpara power limited to TANGEDCO	WR-SR/Import of SR
4	29th Jan 2019	Whole Month	Revised TTC Due to recent changes in network of NER (Upgradation of 132 kV Silchar - Imphal D/C to 400 kV Level, commissioning of 132 kV Silchar- Melriat D/C ,2*315 MVA, 400/132 kV ICTs at Imphal(PG) ) and changes in load generation balance in NER	ER-NER/NER-ER/Import /Export of NER
		01st Feb 2019 to 06th Feb 19	Revised due to Talcher - kolar single/Bi-pole Shutdown on various dates.	ER-SR/ Import of SR
5	1st Feb 2019	2nd Feb 2019	Revised TTC due to day time Shutdown of 400 kV Bongaigaon - Azara line for testing, commissioning and jumper connection of new reactor at Bongaigaon Substation.	ER-NER/NER-ER/Import /Export of NER
6	17th Feb 2019	18th Feb 2019	Revised due to day time Shutdown of 400/220 kV ICT 2 at Misa S/s	ER-NER/NER-ER/Import /Export of NER
		19th Feb 2019 to 28th Feb 2019	Revised due to Continuous Shutdown of 400/220 kV ICT 1 at Misa S/s	ER-NER/NER-ER/Import /Export of NER
7	21st Feb 2019	22nd Feb 2019	Revised due to shutdown of 765/400kV ICT-1 at Agra	WR-NR/Import of NR
8	22nd Feb 2019	24th Feb 2019	Revised due to simultaneous shutdown of 400kV Ramagundam-Bhadrawati -1 and 2	WR-SR/Import of SR

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