

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

Issue Date: 28th January 2019

Issue Time: 1800 hrs

Revision No. 2

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 March 2019 to 31st March 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st March 2019 to 31st March 2019	00-24	13250	500	12750	9383	3367	1000	Revised TTC due to normalization of Champa Kurukshetra bipole
			12300**		11800**	8433**	3367**		
NR-ER*	1st March 2019 to 31st March 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st March 2019 to 31st March 2019	00-24	5250	300	4950	3892	1058		
W3-ER	1st March 2019 to 31st March 2019	00-24	No limit is being specified.						
ER-W3	1st March 2019 to 31st March 2019	00-24	No limit is being specified.						
WR-SR	1st March 2019 to 31st March 2019	00-05	5550	500	5050	4435	615		Revised STOA margin due to termination of 100 MW MTOA from LANCO Anpara power limited to TANGEDCO
		05-22	5550		5050		615		
		22-24	5550		5050		615		
SR-WR *	1st March 2019 to 31st March 2019	00-24	No limit is being Specified.						
ER-SR	1st March 2019 to 31st March 2019	00-06	4950	250	4700	2762	1938		
		06-18				2847	1853		
		18-24				2762	1938		
SR-ER *	1st March 2019 to 31st March 2019	00-24	No limit is being Specified.						

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ER-NER	1st March 2019 to 31st March 2019	00-17	1320	45	1275	225	1050		
		17-23	1250		1205		980		
		23-24	1320		1275		1050		
NER-ER	1st March 2019 to 31st March 2019	00-17	2270	45	2225	0	2225		
		17-23	2380		2335		2335		
		23-24	2270		2225		2225		

<b>W3 zone Injection</b>	1st March 2019 to 31st March 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 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 :

- The TTC value will be revised to normal values after restoration of shutdown.
- 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
<b>ER</b>									
<b>NR</b>	1st March 2019 to 31st March 2019	00-06	17650 16700**	800	16850 15900**	13275 12325**	3575 3575**	150	Revised TTC due to: (a) Normalization of Champa Kurukshetra bipole (b) Change in pattern of inter-regional flow towards NR
		06-17	18900 17950**		18100 17150**		4825 4825**	1400	
		17-18	17000 16050**		16200 15250**		2925 2925**	-500	
		18-23	17000 16050**		16200 15250**		2925 2925**	1300	
		23-24	17000 16050**		16200 15250**		2925 2925**	-500	
<b>NER</b>	1st March 2019 to 31st March 2019	00-17	1320	45	1275	225	1050		
		17-23	1250		1205		980		
		23-24	1320		1275		1050		
<b>WR</b>									
<b>SR</b>	1st March 2019 to 31st March 2019	00-06	10500	750	9750	7197	2553		Revised STOA margin due to termination of 100 MW MTOA from LANCO Anpara power limited to TANGEDCO
		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 March 2019 to 31st March 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24			3800	388	3412		
<b>NER</b>	1st March 2019 to 31st March 2019	00-17	2270	45	2225	0	2225		
		17-23	2380		2335				
		23-24	2270		2225				
<b>WR</b>									
<b>SR *</b>	1st March 2019 to 31st March 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 Badod-Modak	Rev-0 to 2
<b>WR-NR</b>	(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
	RVO operation of HVDC Champa Kurukshetra Poles Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-1
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-2
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 2
<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 2
<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 2
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 2
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 2
<b>ER-NER</b>	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 to 2
<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 2
<b>W3 zone Injection</b>	---	Rev-0 to 2

### 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 2
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-2
		(n-1) Contingency of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
	<b>Export</b>	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
		RVO operation of HVDC Champa Kurukshetra Poles Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-1
		(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 to 2
<b>NER</b>	<b>Import</b>	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 to 2
	<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 2
<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 2
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 2
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 2

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<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision/Comment</b>	<b>Corridor Affected</b>
1	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
2	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

ASSUMPTIONS IN BASECASE					
				Month : March'19	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	<b>NORTHERN REGION</b>				
1	Punjab	7631	5304	3251	3411
2	Haryana	7632	6427	2416	2583
3	Rajasthan	10162	10300	5870	5563
4	Delhi	4284	2991	541	541
5	Uttar Pradesh	13764	11993	6360	6181
6	Uttarakhand	1805	1129	722	273
7	Himachal Pradesh	1447	1176	204	87
8	Jammu & Kashmir	2034	1487	292	258
9	Chandigarh	241	124	0	0
10	ISGS/PPs	30	29	18516	11014
	<b>Total NR</b>	<b>49030</b>	<b>40961</b>	<b>38172</b>	<b>29911</b>
II	<b>EASTERN REGION</b>				
1	Bihar	3735	2424	351	207
2	Jharkhand	970	764	360	223
3	Damodar Valley Corporation	2950	2716	5233	4381
4	Orissa	3969	3052	2364	1707
5	West Bengal	6784	4769	5378	4065
6	Sikkim	104	103	0	0
7	Bhutan	207	205	643	336
8	ISGS/PPs	1120	622	12272	9067
	<b>Total ER</b>	<b>19839</b>	<b>14656</b>	<b>26600</b>	<b>19986</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	17960	14784	12516	11172
2	Gujarat	13475	11383	8764	8663
3	Madhya Pradesh	10868	7296	5106	4320
4	Chattisgarh	3606	2974	2248	2297
5	Daman and Diu	324	247	0	0
6	Dadra and Nagar Haveli	793	626	0	0
7	Goa-WR	522	334	0	0
8	ISGS/PPs	4337	3788	37969	27558
	<b>Total WR</b>	<b>51885</b>	<b>41432</b>	<b>66603</b>	<b>54011</b>

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	8132	7075	6103	4712
2	Telangana	9743	7879	4823	4423
3	Karnataka	10431	6863	7633	5219
4	Tamil Nadu	14513	10701	6958	5513
5	Kerala	3871	2392	1678	402
6	Pondy	329	337	0	0
7	Goa-SR	74	76	0	0
8	ISGS/PPs	0	0	14302	12280
	<b>Total SR</b>	<b>47093</b>	<b>35324</b>	<b>41497</b>	<b>32550</b>
V	<b>NORTH-EASTERN REGION</b>				
1	Arunachal Pradesh	133	72	0	0
2	Assam	1233	1035	185	142
3	Manipur	162	92	0	0
4	Meghalaya	301	216	197	105
5	Mizoram	90	67	8	14
6	Nagaland	115	76	12	6
7	Tripura	198	142	72	75
8	ISGS/PPs	116	76	1902	1404
	<b>Total NER</b>	<b>2348</b>	<b>1776</b>	<b>2376</b>	<b>1746</b>
	<b>Total All India</b>	<b>170195</b>	<b>134586</b>	<b>175247</b>	<b>138576</b>