

**National Load Despatch Centre**  
**Total Transfer Capability for November 2017**

Issue Date: 29th September 2017

Issue Time: 1800 hrs

Revision No. 3

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 November 2017 to 30th November 2017	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st November 2017 to 30th November 2017	00-24	10050	500	9550	8368	1182	1000	Revised TTC due to commissioning and commercial operation of HVDC Champa Kurukshetra pole II and revised STOA margins due to change in LTA/MTOA approved by CTU
NR-ER*	1st November 2017 to 30th November 2017	00-06	2000	200	1800	193	1607		
		06-18	2000			1800	303	1497	
		18-24	2000			1800	193	1607	
ER-NR*	1st November 2017 to 30th November 2017	00-24	4500	300	4200	3030	1170		
W3-ER	1st November 2017 to 30th November 2017	00-24	No limit is being specified.						
ER-W3	1st November 2017 to 30th November 2017	00-24	No limit is being specified.						
WR-SR	1st November 2017 to 30th November 2017	00-05	4700	500	4200	3710	490		Revised STOA margins due to change in LTA/MTOA approved by CTU
		05-22	4700		4200		490		
		22-24	4700		4200		490		
SR-WR *	1st November 2017 to 30th November 2017	00-24	No limit is being Specified.						
ER-SR	1st November 2017 to 30th November 2017	00-06	3750	250	3500	3289	211		Revised STOA margins due to change in LTA/MTOA approved by CTU
		06-18'				3374	126		
		18-24				3289	211		
SR-ER *	1st November 2017 to 30th November 2017	00-24	No limit is being Specified.						

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<b>ER-NER</b>	1st November 2017 to 30th November 2017	00-17	1120	45	1075	225	850		
		17-23	1010		965		740		
		23-24	1120		1075		850		
<b>NER-ER</b>	1st November 2017 to 30th November 2017	00-17	1340	45	1295	0	1295		
		17-23	1260		1215		1215		
		23-24	1340		1295		1295		
<b>W3 zone Injection</b>	1st November 2017 to 30th November 2017	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
<b>Note: TTC/ATC of S1-(S2&amp;S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD &amp; DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.</b>									

\* 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).

- 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
<b>ER</b>									
<b>NR</b>	1st November 2017 to 30th November 2017	00-05	14350	800	13550	11398	2152	1450	Revised TTC due to commissioning and commercial operation of HVDC Champa Kurukshetra pole II and revised STOA margins due to change in LTA/MTOA approved by CTU
		05-08	14350		13550		2152	1450	
		08-18	14350		13550		2152	1450	
		18-23	13050		12250		852	1450	
		23-24	14350		13550		2152	1450	
<b>NER</b>	1st November 2017 to 30th November 2017	00-17	1120	45	1075	225	850		
		17-23	1010		965		740		
		23-24	1120		1075		850		
<b>WR</b>									
<b>SR</b>	1st November 2017 to 30th November 2017	00-05	8450	750	7700	6998	702		Revised STOA margins due to change in LTA/MTOA approved by CTU
		05-06	8450		7700	6998	702		
		06-18	8450		7700	7083	617		
		18-22	8450		7700	6998	702		
		22-24	8450		7700	6998	702		

\* 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).

\* 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 November 2017 to 30th November 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24	4500		3800	248	3552		
<b>NER</b>	1st November 2017 to 30th November 2017	00-17	1340	45	1295	0	1295		
		17-23	1260		1215		1215		
		23-24	1340		1295		1295		
<b>WR</b>									
<b>SR *</b>	1st November 2017 to 30th November 2017	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	All
WR-NR	1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.	All
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	All
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c	All
WR-SR & ER-SR	(n-1) contingency of 400 kV Dichipalli-Ramagundam or one ckt of 765 kV Aurangabad-Solapur D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	All
	a. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C b. N-1 contingency of 765/400 kV 2x1500 MVA Maheswaram (PG) ICTs results in high loading of other ICT Low Voltage at Gazuwaka (East) Bus.	All except Rev 0-1
		All
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)	All
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa	All
W3 zone Injection	---	All

### Limiting Constraints (Simultaneous)

			Applicable Revisions
NR	Import	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c. 1. (n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.	All
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	All
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)	All
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa.	All
SR	Import	(n-1) contingency of 400 kV Dichipalli-Ramagundam or one ckt of 765 kV Aurangabad-Solapur D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	All
		a. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C b. N-1 contingency of 765/400 kV 2x1500 MVA Maheswaram (PG) ICTs results in high loading of other ICT	All except Rev 0-1
		Low Voltage at Gazuwaka (East) Bus.	All

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<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision</b>	<b>Corridor Affected</b>
1	31st July 2017	Whole month	Revised considering the change in LTA/MTOA granted by CTU	WR-NR/Import of NR
2	20th Sepetmber 2017	Whole month	Revised considering commissioning and commercial operation of 765 kV Nizamabad - Maheswaram D/C, 765/400 kV 2x1500 MVA ICTs at Maheswaram, 400 kV Maheswaram(PG) - Maheswaram D/C, 400/220 kV 1x500 MVA ICTs at Maheswaram, 400 kV Maheswaram(PG) - Kurnool S/C and 400 kV Maheswaram - Ghanapur S/C (LILO of 400 kV Ghanapur - Kurnool S/C)	ER-SR / WR-SR / Import of SR
3	29th Sepetmber 2017	Whole month	Due to commissioning and commercial operation of HVDC Champa Kurukshetra pole II and change in LTA/MTOA as approved by CTU	WR-NR / Import of NR
			Revised STOA margins to change in LTA/MTOA approved by CTU	WR-SR / ER-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : Nov'17	
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	5076	3313	2505	2469
2	Haryana	6779	3330	1533	1533
3	Rajasthan	10005	10899	5097	5121
4	Delhi	3244	1750	755	755
5	Uttar Pradesh	15422	13884	8026	7851
6	Uttarakhand	1899	1518	848	390
7	Himachal Pradesh	1421	1282	195	85
8	Jammu & Kashmir	2496	2504	551	356
9	Chandigarh	175	91	0	0
10	ISGS/PPs	26	26	17096	8611
	<b>Total NR</b>	<b>46543</b>	<b>38599</b>	<b>36606</b>	<b>27171</b>
II	<b>EASTERN REGION</b>				
1	Bihar	4062	2536	202	181
2	Jharkhand	1290	891	197	190
3	Damodar Valley Corporation	3068	2634	4868	3974
4	Orissa	4265	3347	3232	2292
5	West Bengal	7139	5869	5379	4539
6	Sikkim	88	50	0	0
7	Bhutan	212	216	1434	1434
8	ISGS/PPs	267	263	11767	8535
	<b>Total ER</b>	<b>20389</b>	<b>15807</b>	<b>27079</b>	<b>21146</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	17837	13518	12629	10871
2	Gujarat	12982	10844	9406	8143
3	Madhya Pradesh	11007	8265	5273	4547
4	Chattisgarh	3620	2188	2520	1990
5	Daman and Diu	312	269	0	0
6	Dadra and Nagar Haveli	635	686	0	0
7	Goa-WR	570	316	0	0
8	ISGS/PPs	3903	3510	34513	29450
	<b>Total WR</b>	<b>50865</b>	<b>39597</b>	<b>64342</b>	<b>55002</b>

IV	SOUTHERN REGION				
1	Andhra Pradesh	7515	6742	5781	3958
2	Telangana	7346	5433	4521	2775
3	Karnataka	10351	8454	5936	4350
4	Tamil Nadu	13800	11600	6869	5544
5	Kerala	3743	2200	1400	141
6	Pondy	387	387	0	0
7	Goa-SR	87	87	0	0
8	ISGS/PPs	0	0	13456	12330
	Total SR	43229	34903	37963	29098
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	122	63	0	0
2	Assam	1057	825	230	140
3	Manipur	147	87	0	0
4	Meghalaya	307	203	145	82
5	Mizoram	89	65	8	8
6	Nagaland	97	81	8	6
7	Tripura	197	185	83	82
8	ISGS/PPs	160	60	1677	1260
	Total NER	2176	1569	2151	1578
	Total All India	163444	130721	169633	135488