

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

Issue Date: 13th December 2017

Issue Time: 1330 hrs

Revision No. 10

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 December 2017 to 31st December 2017	00-06	2500	500	2000	55	1945			
		06-18				65	1935			
		18-24				55	1945			
WR-NR*	1st December 2017 to 4th December 2017	00-08	10050	500	9550	9318	232			
		08-24'	9050	500	8550	9318	0			
	5th December 2017 to 10th December 2017	00-24	10050	500	9550	9318	232			
	11th December 2017 to 13th December 2017	00-08	10050	500	9550	9318	232			
		08-24'	9550	500	9050	9318	0			
	14th December 2017 to 20th December 2017	00-24	8800	500	8300	9318	0	-1250		Revised due to shutdown of Agra-Gwalior-1 & 2 lines one by one.
	21st December 2017 to 31st December 2017	00-24	10050	500	9550	9318	232			
NR-ER*	1st December 2017 to 31st December 2017	00-06	2000	200	1800	193	1607			
		06-18	2000		1800	303	1497			
		18-24	2000		1800	193	1607			
ER-NR*	1st December 2017 to 31st December 2017	00-24	4500	300	4200	3030	1170			
W3-ER	1st December 2017 to 31st December 2017	00-24	No limit is being specified.							
ER-W3	1st December 2017 to 31st December 2017	00-24	No limit is being specified.							
WR-SR	1st December 2017 to 4th December 2017	00-05	5200	500	4700	3710	990			
		05-22	5200		4700		990			
		22-24	5200		4700		990			
	5th December 2017 to 11th December 2017	00-05	5200	500	4700	3710	990			
		05-22	5200	4700	990					
		22-24	5200	4700	990					
	12th December 2017 to 13th December 2017	00-05	5200	500	4700	3710	990			
		05-22	5200	4700	990					
		22-24	5200	4700	990					
	14th December 2017 to 15th December 2017	00-05	5200	500	4700	3710	990	-500	Revised due to single Moose conductor configuration of 400kV Chandrapur--Ramagundam-1 & 2 which are on ERS towers.	
		05-22	5200	4700	990	-500				
		22-24	5200	4700	990	-500				

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WR-SR	16th December 2017	00-05	5200	500	4700	3710	990	-500	Revised due to shutdown of 400kV Ramagundam-chandrapur-1 & 2lines	
		05-22	4700		4200		490	-1000		
		22-24	4700		4200		490	-1000		
	17th December 2017 to 31st December 2017	00-05	5700	500	5200	3710	1490			
		05-22	5700		5200		1490			
		22-24	5700		5200		1490			
SR-WR *	1st December 2017 to 31st December 2017	00-24	No limit is being Specified.							
ER-SR	1st December 2017 to 11th December 2017	00-06	3800	250	3550	3289	261			
		06-18'					3374	176		
		18-24					3289	261		
ER-SR	12th December 2017	00-06	3800	250	3550	3289	261			
		06-08'					3374	176		
		08-18'	3650		3400	3374	26			
		18-24			3289	111				
ER-SR	13th December 2017	00-06	3800	250	3550	3289	261			
		06-08'					3374	176		
		08-18'	3500		3250	3374	0			
		18-24			3289	0				
ER-SR	14th December 2017	00-06	3800	250	3550	3289	261			
		06-18'					3374	176		
		18-24					3289	261		
ER-SR	15th December 2017	00-06	3800	250	3550	3289	261		Revised due to shutdown of Jeypore-Gazuwaka-1 line & HVDC Gazuwaka Pole-2	
		06-08'					3374	176		
		08-18'	3500		3250	3374	0	-300		
		18-24			3289	0	-300			
ER-SR	16th December 2017 to 31st December 2017	00-06	3800	250	3550	3289	261			
		06-18'					3374	176		
		18-24					3289	261		
SR-ER *	1st December 2017 to 31st December 2017	00-24	No limit is being Specified.							
ER-NER	1st December 2017	00-17	1270	45	1225	225	1000			
		17-23	1160		1115		890			
		23-24	1270		1225		1000			
	2nd December 2017 to 31st December 2017	00-17	1170	45	1125	225	900			
		17-23	1060		1015		790			
		23-24	1170		1125		900			

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NER-ER	1st December 2017	00-17	1400	45	1355	0	1355		
		17-23	1400		1355		1355		
		23-24	1400		1355		1355		
	2nd December 2017 to 31st December 2017	00-17	1500	45	1455	0	1455		
		17-23	1500		1455		1455		
		23-24	1500		1455		1455		
<b>W3 zone Injection</b>	1st December 2017 to 31st December 2017	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).

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.



<b>SR</b>	1st December 2017 to 04th December 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-18	9000		8250	7083	1167		
		18-22	9000		8250	6998	1252		
		22-24	9000		8250	6998	1252		
<b>SR</b>	5th December 2017 to 11th December 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-18	9000		8250	7083	1167		
		18-22	9000		8250	6998	1252		
		22-24	9000		8250	6998	1252		
<b>SR</b>	12th December 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-08	9000		8250	7083	1167		
		08-18	8850		8100	7083	1017		
		18-22	8850		8100	6998	1102		
		22-24	8850		8100	6998	1102		
<b>SR</b>	13th December 2017	00-05	9000	750	8250	6998	1252		
		05-06	9000		8250	6998	1252		
		06-08	9000		8250	7083	1167		
		08-18	8700		7950	7083	867		
		18-22	8700		7950	6998	952		
		22-24	8700		7950	6998	952		
<b>SR</b>	14th December 2017	00-05	9000	750	8250	6998	1252	-500	Revised due to single Moose conductor configuration of 400kV Chandrapur-- Ramagundam-1 & 2 which are on ERS towers.
		05-06	9000		8250	6998	1252		
		06-08	9000		8250	7083	1167		
		08-18	9000		8250	7083	1167		
		18-22	9000		8250	6998	1252		
		22-24	9000		8250	6998	1252		
<b>SR</b>	15th December 2017	00-05	9000	750	8250	6998	1252	-500	Revised due to single Moose conductor configuration of 400kV Chandrapur-- Ramagundam-1 & 2 which are on ERS towers.& Revised due to shutdown of Jeypore-Gazuwaka-1 line & HVDC Gazuwaka Pole-2
		05-06	9000		8250	6998	1252	-500	
		06-08	9000		8250	7083	1167	-500	
		08-18	8700		7950	7083	867	-800	
		18-22	8700		7950	6998	952	-800	
		22-24	8700		7950	6998	952	-800	
<b>SR</b>	16th December 2017	00-05	9500	750	8750	6998	1752		
		05-06	8500		7750	6998	752		-1000
		06-18	8500		7750	7083	667		-1000
		18-22	8500		7750	6998	752		-1000
		22-24	8500		7750	6998	752		-1000

<b>SR</b>	17th December 2017 to 31st December 2017	00-05	9500	750	8750	6998	1752	
		05-06	9500		8750	6998	1752	
		06-18	9500		8750	7083	1667	
		18-22	9500		8750	6998	1752	
		22-24	9500		8750	6998	1752	

\* 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
NR*	1st December 2017 to 31st December 2017	00-06	4500	700	3800	248	3552		
		06-18			3800	368	3432		
		18-24	4500		3800	248	3552		
NER	1st December 2017 to 31st December 2017	00-17	1400	45	1355	0	1355		
		17-23	1400		1355		1355		
		23-24	1400		1355		1355		
WR									
SR *	1st December 2017 to 31st December 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)

Corridor	Constraint	Applicable Revisions
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	All except Rev-0
	Low Voltage at Gazuwaka (East) Bus.	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 220 kV Samaguri - Sonabil line	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.
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Balipara-Sonabil line(200 MW) b.
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of 220 kV Samaguri - Sonabil line
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
		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.



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

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	20th September 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
2	28th September 2017	Whole Month	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	WR-NR / Import of NR
			Revised STOA margins due to change in LTA/MTOA approved by CTU	WR-SR/ER-SR / Import of SR
3	27th October 2017	Whole Month	Revised due to commissioning of 400 kV Nizamabad-Shankarapalli D/C and consideration of present load generation balance	ER-SR / WR-SR / Import of SR
4	28th November 2017	Whole Month	Revised STOA margins due to reconfiguration of Rihand TPS Stage-III from Northern Region to Western Region	WR-NR / Import of NR
5	30th November 2017	01st December 2017 to 04th December 2017	Revised due to shutdown of HVDC Mundra-Mohindergarh Pole-2 for replacement of Insulators and due to single Moose conductor configuration of both the ckts of 400kV Chandrapur-Ramagundam which are on ERS towers.	WR-NR / Import of NR and WR-SR/ Import of SR
6	1st December 2017	2nd December 2017 to 31st December	Revised due to commissioning of second unit of BGTTP	ER-NER/NER-ER/Import of NER
7	4th December 2017	05th December 2017 to 11th December 2017	Revised due to single Moose conductor configuration of both the ckts of 400kV Chandrapur-Ramagundam which are on ERS towers.	WR-SR/ Import of SR
8	10th December 2017	11th December 2017 to 13th December 2017	Revised due to shutdown of 765kV Phagi-Bhiwani-1(11th and 12th Dec) and Phagi-Bhiwani-2(13th Dec 17)	WR-NR / Import of NR
		12th December 2017 to 13th December 2017	Revised due to single Moose conductor configuration of both the ckts of 400kV Chandrapur-Ramagundam which are on ERS towers.	WR-SR/ Import of SR
9	11th December 2017	12th December 2017	Revised due to Shutdown of HVDC Gazuwaka Pole-1	ER-SR / Import of SR
		13th December 2017	Revised due to Shutdown of HVDC Gazuwaka Pole-1 & Jeypore-Gazuwaka-2 line	ER-SR / Import of SR
10	13th December 2017	14th December 2017 to 20th December 2017	Revised due to shutdown of Agra-Gwalior-1 & 2 lines one by one.	WR-NR / Import of NR
		14th & 15th December 2017	Revised due to single Moose conductor configuration of 400kV Chandrapur--Ramagundam-1 & 2 which are on ERS towers.	WR-SR / Import of SR
		16th December 2017	Revised due to shutdown of 400kV Ramagundam-chandrapur-1 & 2lines	
		15th December 2017	Revised due to Shutdown of HVDC Gazuwaka Pole-2 & Jeypore-Gazuwaka-1 line	ER-SR / Import of SR

ASSUMPTIONS IN BASECASE					
				Month : Dec'17	
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	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/IPPs	26	26	17096	8611
	Total NR	46543	38599	36606	27171
II	EASTERN REGION				
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/IPPs	267	263	11767	8535
	Total ER	20389	15807	27079	21146
III	WESTERN REGION				
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/IPPs	3903	3510	34513	29450
	Total WR	50865	39597	64342	55002

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	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