

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

Issue Date: 4th October 2017

Issue Time: 1800 hrs

Revision No. 7

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 October 2017 to 31st October 2017	00-06	2500	500	2000	55	1945			
		06-18				65	1935			
		18-24				55	1945			
WR-NR*	1st October 2017 to 31st October 2017	00-24	10050	500	9550	8368	1182			
NR-ER*	1st October 2017 to 31st October 2017	00-06	2000	200	1800	193	1607			
		06-18	2000		1800	303	1497			
		18-24	2000		1800	193	1607			
ER-NR*	1st October 2017 to 31st October 2017	00-24	4500	300	4200	3030	1170			
W3-ER	1st October 2017 to 31st October 2017	00-24	No limit is being specified.							
ER-W3	1st October 2017 to 31st October 2017	00-24	No limit is being specified.							
WR-SR	1st October 2017 to 31st October 2017	00-05	4700	500	4200	3674	526			
		05-22	4700		4200		526			
		22-24	4700		4200		526			
SR-WR *	1st October 2017 to 31st October 2017	00-24	No limit is being Specified.							
ER-SR	1st October 2017 to 24th October 2017	00-06	3750	250	3500	2846	654			
		06-18'				2931	569			
		18-24				2846	654			
	4th and 5th October 2017	00-06	3750	250	3500	2846	654			
		06-0830'				2931	569			
		0830-18'	3450			3200	2931	269		
	18-24	18-24				2846	354			
		6th October 2017 and 7th October 2017	00-06	3750	250	3500	2846	654		Revised due to shutdown of HVDC Pole-1 and 2 at Gazuwaka. ( One at a time)
			06-830'				2931	569		
	830-18'		3600	3350			2931	419	-150	
	18-24	18-24				2846	504			
		8th October 2017 to 24th October 2017	00-06	3750	250	3500	2846	654		
			06-18'				2931	569		
	18-24		2846				654			
	24th October 2017 to 31st October 2017	00-06	3750	250	3500	3289	211			
06-18'		3374				126				
18-24		3289				211				
SR-ER *	1st October 2017 to 31st October 2017	00-24	No limit is being Specified.							
ER-NER	1st October 2017 to 31st October 2017	00-17	1100	45	1055	225	830			
		17-23	1000		955		730			
		23-24	1100		1055		830			
NER-ER	1st October 2017 to 31st October 2017	00-17	1330	45	1285	0	1285			
		17-23	1240		1195		1195			
		23-24	1330		1285		1285			
W3 zone Injection	1st October 2017 to 31st October 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.**

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\* 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 October 2017 to 31st October 2017	00-05	14350	800	13550	11398	2152		
		05-08	14350		13550		2152		
		08-18	14350		13550		2152		
		18-23	13050		12250		852		
		23-24	14350		13550		2152		
<b>NER</b>	1st October 2017 to 31st October 2017	00-17	1100	45	1055	225	830		
		17-23	1000		955		730		
		23-24	1100		1055		830		
<b>WR</b>									
<b>SR</b>	1st October 2017 to 24th October 2017	00-05	8450	750	7700	6520	1180		
		05-06	8450		7700	6520	1180		
		06-18	8450		7700	6605	1095		
		18-22	8450		7700	6520	1180		
		22-24	8450		7700	6520	1180		
	4th and 5th October 2017	00-05	8450	750	7700	6520	1180		
		05-06	8450		7700	6520	1180		
		06-830	8450		7700	6605	1095		
		830-18	8150		7400	6605	795		
		18-22	8150		7400	6520	880		
		22-24	8150		7400	6520	880		
	6th October 2017 and 7th October 2017	00-05	8450	750	7700	6520	1180		
		05-06	8450		7700	6520	1180		
		06-830	8450		7700	6605	1095		
		830-18	8300		7550	6605	945	-150	Revised due to shutdown of HVDC Pole-1 and 2 at Gazuwaka.( One at a time)
		18-22	8300		7550	6520	1030	-150	
		22-24	8300		7550	6520	1030	-150	
	8th October 2017 to 24th October 2017	00-05	8450	750	7700	6520	1180		
		05-06	8450		7700	6520	1180		
		06-18	8450		7700	6605	1095		
		18-22	8450		7700	6520	1180		
		22-24	8450		7700	6520	1180		
	24th October 2017 to 31st October 2017	00-05	8450	750	7700	6963	737		
05-06		8450	7700		6963	737			
06-18		8450	7700		7048	652			
18-22		8450	7700		6963	737			
22-24		8450	7700		6963	737			

\* 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**

<b>Corridor</b>	<b>Date</b>	<b>Time Period (hrs)</b>	<b>Total Transfer Capability (TTC)</b>	<b>Reliability Margin</b>	<b>Available Transfer Capability (ATC)</b>	<b>Long Term Access (LTA)/ Medium Term Open Access (MTOA)</b>	<b>Margin Available for Short Term Open Access (STOA)</b>	<b>Changes in TTC w.r.t. Last Revision</b>	<b>Comments</b>
<b>NR*</b>	1st October 2017 to 31st October 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24	4500		3800	248	3552		
<b>NER</b>	1st October 2017 to 31st October 2017	00-17	1330	45	1285	0	1285		
		17-23	1240		1195		1195		
		23-24	1330		1285		1285		
<b>WR</b>									
<b>SR *</b>	1st October 2017 to 31st October 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)	1-2
	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	3-4
	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 other 400/220 kV, 315 MVA ICT at Misa	All
W3 zone Injection	---	All

### Limiting Constraints (Simultaneous)

		Constraint	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)	1-2
		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	3-4
		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	28th July 2017	Whole month	Revised STOA margins due to change in LTA / MTOA figures approved by CTU	WR-NR/Import of NR
2	31st July 2017	Whole month	Revised STOA margins due to change in LTA / MTOA figures approved by CTU	WR-NR/Import of NR
3	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
4	29th September 2017	Whole month	Revised TTC due to COD of HVDC Champa Kurukshetra pole liand revised STOA margins due to change in LTA/MTOA approved by CTU	WR-NR/Import of NR
		1st October to 24th October 2017	Revised STOA margin due to planned outage of Talcher StgII U#3 and change in LTA/MTOA approved by CTU	WR-SR / ER-SR / Import of SR
		24th October to 31st October 2017	Revised STOA margin due to change in LTA/MTOA approved by CTU	
5	29th September 2017	Whole month	Revised due to partial modification in LTA approved by CTU	WR-SR / Import of SR
6	3rd October 2017	4th and 5th October 2017	Revised due to Shutdwon of Jeypore-Gazuwaka-1 and 2(One by one) on daily basis respectively.	ER-SR / Import of SR
7	4th October 2017	6th and 7th October 2017	Revised due to shutdown of HVDC Pole-1 and 2 at Gazuwaka.( One at a time)	ER-SR / Import of SR

ASSUMPTIONS IN BASECASE					
				Month : October'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	8029	6646	3099	3145
2	Haryana	7627	5298	1701	1701
3	Rajasthan	8833	8881	5381	5411
4	Delhi	5072	4174	805	805
5	Uttar Pradesh	14985	14821	9097	9093
6	Uttarakhand	1804	1369	890	693
7	Himachal Pradesh	1275	1043	387	344
8	Jammu & Kashmir	2378	1099	696	503
9	Chandigarh	266	181	0	0
10	ISGS/IPPs	26	27	18406	10653
	Total NR	50296	43538	40462	32348
II	EASTERN REGION				
1	Bihar	4034	2465	202	178
2	Jharkhand	1332	915	187	187
3	Damodar Valley Corporation	3138	2664	4808	3850
4	Orissa	4286	3262	3382	2210
5	West Bengal	7050	5900	5309	4270
6	Sikkim	89	50	0	0
7	Bhutan	212	216	1434	1434
8	ISGS/IPPs	267	263	11697	9325
	Total ER	20406	15737	27019	21454
III	WESTERN REGION				
1	Maharashtra	18356	14979	12498	11221
2	Gujarat	13916	12128	10311	8731
3	Madhya Pradesh	9586	7408	4172	4547
4	Chattisgarh	3889	2800	2510	2090
5	Daman and Diu	325	288	0	0
6	Dadra and Nagar Haveli	698	769	0	0
7	Goa-WR	571	281	0	0
8	ISGS/IPPs	3986	3664	34817	30704
	Total WR	51326	42317	64308	57293



IV	SOUTHERN REGION				
1	Andhra Pradesh	8439	6388	5847	4612
2	Telangana	8741	7000	5877	3753
3	Karnataka	9896	8233	6319	4457
4	Tamil Nadu	14068	11864	7403	5878
5	Kerala	3652	2312	1300	283
6	Pondy	387	395	0	0
7	Goa-SR	87	89	0	0
8	ISGS/IPPs	0	0	13865	11425
	Total SR	45271	36282	40611	30407
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	122	63	0	0
2	Assam	1158	1012	230	180
3	Manipur	162	87	0	0
4	Meghalaya	246	178	191	130
5	Mizoram	93	69	8	8
6	Nagaland	119	83	16	6
7	Tripura	270	195	82	82
8	ISGS/IPPs	98	60	1882	1471
	Total NER	2268	1749	2409	1877
	Total All India	169567	139623	174809	143380