

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

Issue Date: 17th August 2017

Issue Time: 1800 hrs

Revision No. 12

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 August 2017 to 31st August 2017	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st August 2017 to 06th August 2017	00-24	7050	500	6550	8330	0		
	07th August 2017 to 09th August 2017	00-24	8050	500	7550	8330	0		
	10th August 2017 to 31st August 2017	00-24	9050	500	8550	8330	220		
NR-ER*	1st August 2017 to 31st August 2017	00-06	2000	200	1800	193	1607		
		06-18'	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st August 2017 to 31st August 2017	00-24	4500	300	4200	2983	1217		
W3-ER	1st August 2017 to 31st August 2017	00-24	No limit is being specified.						
ER-W3	1st August 2017 to 31st August 2017	00-24	No limit is being specified.						
WR-SR	1st August 2017 to 5th August 2017	00-05	4350	500	3850	3889	0		
		05-22	4350		3850		0		
		22-24	4350		3850		0		
	6th August 2017	00-0630	4350	500	3850	3889	0		
		0630-22	3350		2850		0		
		22-24	3350		2850		0		
	7th August 2017 to 08th August 2017	00-05	4350	500	3850	3889	0		
		05-22	4350		3850		0		
		22-24	4350		3850		0		
	09th August 2017	00-05	4350	500	3850	3889	0		
		05-0830	4350		3850		0		
		0830-22	4050		3550		0		
		22-24	4050		3550		0		
	10th August 2017	00-05	4050	500	3550	3889	0		
		05-22	4050		3550		0		
		22-24	4050		3550		0		
	11th August 2017 to 18th August 2017	00-05	4350	500	3850	3889	0		
		05-22	4350		3850		0		
		22-24	4350		3850		0		
	19th August 2017	00-05	4350	500	3850	3889	0		Revised due to emergency shutdown 400kV Nizamabad-Dichipally -1 and 2 (One by one)
		05-0730	4350		3850		0	-650	
0730-22		3700	3200		0		-650		
20th August 2017 to 31st August 2017	00-05	4350	500	3850	3889	0			
	05-22	4350		3850		0			
	22-24	4350		3850		0			
SR-WR *	1st August 2017 to 31st August 2017	00-24	No limit is being Specified.						

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ER-SR	1st August 2017 to 11th August 2017	00-06	3450	250	3200	2604	596		
		06-18'				2689	511		
		18-24				2604	596		
ER-SR	12th August 2017	00-06	3450	250	3200	2604	596		
		06-07'	3450		3200	2689	511		
		07-18'	1450		1200	2689	0		
		18-24	1450		1200	2604	0		
	13th August 2017	00-06	1450	250	1200	2604	0		
		06-18'				2689	0		
		18-24				2604	0		
	14th August 2017 to 28th August 2017	00-06	3450	250	3200	2604	596		
		06-18'				2689	511		
		18-24				2604	596		
	29th August 2017 to 31st August 2017	00-06	3450	250	3200	3047	153		
		06-18'				3132	68		
18-24		3047				153			
SR-ER *	1st August 2017 to 31st August 2017	00-24	No limit is being Specified.						
ER-NER	1st August 2017 to 12th August 2017	00-17	1045	45	1000	225	775		
		17-23	1065		1020		795		
		23-24	1045		1000		775		
	13th August 2017	00-17	850	45	805	225	580		
		17-23	850		805		580		
		23-24	850		805		580		
	14th August 2017 to 31st August 2017	00-17	1045	45	1000	225	775		
		17-23	1065		1020		795		
		23-24	1045		1000		775		
NER-ER	1st August 2017 to 12th August 2017	00-17	1280	45	1235	0	1235		
		17-23	1240		1195		1195		
		23-24	1280		1235		1235		
	13th August 2017	00-17	850	45	805	0	805		
		17-23	850		805		805		
		23-24	850		805		805		
	14th August 2017 to 31st August 2017	00-17	1280	45	1235	0	1235		
		17-23	1240		1195		1195		
		23-24	1280		1235		1235		
W3 zone Injection	1st August 2017 to 31st August 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) KWPC, 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 August 2017 to 4th August 2017	00-05	10100	800	9300	11313	0		
		05-08	10100		9300		0		
		08-18	10100		9300		0		
		18-23	9050		8250		0		
		23-24	10100		9300		0		
	5th August 2017 to 6th August 2017	00-05	10100	800	9300	11313	0		
		05-08	10100		9300		0		
		08-18	10100		9300		0		
		18-23	9500		8700		0		
		23-24	10100		9300		0		
	7th August 2017 to 9th August 2017	00-05	11500	800	10700	11313	0		
		05-08	11500		10700		0		
		08-18	11500		10700		0		
		18-23	10900		10100		0		
		23-24	11500		10700		0		
	10th August 2017 to 31st August 2017	00-05	12900	800	12100	11313	787		
		05-08	12900		12100		787		
		08-18	12900		12100		787		
		18-23	12200		11400		87		
		23-24	12900		12100		787		
<b>NER</b>	1st August 2017 to 12th August 2017	00-17	1045	45	1000	225	775		
		17-23	1065		1020		795		
		23-24	1045		1000		775		
	13th August 2017	00-17	850	45	805	225	580		
		17-23	850		805		580		
		23-24	850		805		580		
	14th August 2017 to 31st August 2017	00-17	1045	45	1000	225	775		
		17-23	1065		1020		795		
		23-24	1045		1000		775		
<b>WR</b>									
<b>SR</b>	1st August 2017 to 5th August 2017	00-05	7800	750	7050	6493	558		
		05-06	7800		7050	6493	558		
		06-18	7800		7050	6578	473		
		18-22	7800		7050	6493	558		
		22-24	7800		7050	6493	558		
	06th August 2017	00-05	7800	750	7050	6493	558		
		05-06	7800		7050	6493	558		
		06-0630	7800		7050	6578	473		
		0630-18	6800		6050	6578	0		
		18-22	6800		6050	6493	0		
		22-24	6800		6050	6493	0		
	7th August 2017 to 8th August 2017	00-05	7800	750	7050	6493	558		
		05-06	7800		7050	6493	558		
		06-18	7800		7050	6578	473		
		18-22	7800		7050	6493	558		
		22-24	7800		7050	6493	558		

SR	09th August 2017	00-05	7800	750	7050	6493	558	
		05-06	7800		7050	6493	558	
		06-0830	7800		7050	6578	473	
		0830-18	7500		6750	6578	173	
		18-22	7500		6750	6493	258	
		22-24	7500		6750	6493	258	
	10th August 2017	00-05	7500	750	6750	6493	258	
		05-06	7500		6750	6493	258	
		06-18	7500		6750	6578	173	
		18-22	7500		6750	6493	258	
		22-24	7500		6750	6493	258	
	11th August 2017	00-05	7800	750	7050	6493	558	
		05-06	7800		7050	6493	558	
		06-18	7800		7050	6578	473	
		18-22	7800		7050	6493	558	
		22-24	7800		7050	6493	558	
	12th August 2017	00-05	7800	750	7050	6493	558	
		05-06	7800		7050	6493	558	
		06-07	7800		7050	6578	473	
		07-18	5800		5050	6578	0	
		18-22	5800		5050	6493	0	
		22-24	5800		5050	6493	0	
	13th August 2017	00-05	5800	750	5050	6493	0	
		05-06	5800		5050	6493	0	
		06-18	5800		5050	6578	0	
		18-22	5800		5050	6493	0	
		22-24	5800		5050	6493	0	
	14th August 2017 to 18th August 2017	00-05	7800	750	7050	6493	558	
		05-06	7800		7050	6493	558	
		06-18	7800		7050	6578	473	
		18-22	7800		7050	6493	558	
		22-24	7800		7050	6493	558	
19th August 2017	00-05	7800	750	7050	6493	558		
	05-06	7800		7050	6493	558		
	06-0730	7800		7050	6578	473		
	0730-18	7150		6400	6578	0	-650	
	18-22	7150		6400	6493	0	-650	
	22-24	7150		6400	6493	0	-650	
20th August 2017 to 28th August 2017	00-05	7800	750	7050	6493	558		
	05-06	7800		7050	6493	558		
	06-18	7800		7050	6578	473		
	18-22	7800		7050	6493	558		
	22-24	7800		7050	6493	558		
29th August 2017 to 31st August 2017	00-05	7800	750	7050	6936	115		
	05-06	7800		7050	6936	115		
	06-18	7800		7050	7021	30		
	18-22	7800		7050	6936	115		
	22-24	7800		7050	6936	115		

\* 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 August 2017 to 31st August 2017	00-06	4500	700	3800	248	3552			
		06-18'			3800	368	3432			
		18-24			3800	248	3552			
NER	1st August 2017 to 12th August 2017	00-17	1280	45	1235	0	1235			
		17-23	1240		1195		1195			
		23-24	1280		1235		1235			
	13th August 2017	00-17	850	45	805	0	805			
		17-23	850		805		805			
		23-24	850		805		805			
	14th August 2017 to 31st August 2017	00-17	1280	45	1235	0	1235			
		17-23	1240		1195		1195			
		23-24	1280		1235		1235			
	WR									
	SR *	1st August 2017 to 31st August 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	(n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 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 and high availability of Hydro power	All
WR-SR & ER-SR	(n-1) contingency of 400 kV Dichipalli-Ramagundam or (n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-1-6,8
	(n-1) contingency of one circuit of 765kV Sholapur-Raichur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-7,10, 11
	(n-1) contingency of one Bus of 765kV Aurangabad will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-9
	(n-1) contingency of 400kV Dichipally-Nizamabad will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-12
ER-NER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Sonabil-Samaguri line(200 MW)	Rev-0-10,12
	(n-1) contingency of one 400kV Binaguri-Bongaigaon will lead to 874 MW loading on other ckt of 400kV Binaguri-Bongaigaon	Rev-11
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	Rev-0-10,12
	(n-1) contingency of one 400kV Binaguri-Bongaigaon will lead to 874 MW loading on other ckt of 400kV Binaguri-Bongaigaon	Rev-11
W3 zone Injection	---	

### 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 and high availability of Hydro power	All
		(n-1) Contingency of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 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.	All
		(n-1) contingency of 400 kV Saranath-Pusauli	All
NER	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Sonabil-Samaguri line(200 MW)	Rev-0-10,12
		(n-1) contingency of one 400kV Binaguri-Bongaigaon will lead to 874 MW loading on other ckt of 400kV Binaguri-Bongaigaon	Rev-11
	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	Rev-0-10,12
		(n-1) contingency of one 400kV Binaguri-Bongaigaon will lead to 874 MW loading on other ckt of 400kV Binaguri-Bongaigaon	Rev-11
SR	Import	(n-1) contingency of 400 kV Dichipalli-Ramagundam or (n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-1-6,8
		(n-1) contingency of one circuit of 765kV Sholapur-Raichur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-7,10,11
		(n-1) contingency of one Bus of 765kV Aurangabad will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-9
		(n-1) contingency of 400kV Dichipally-Nizamabad will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev-12
		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	5th May 2017	Whole month	STOA margin revised considering the latest LTA/MTOA granted by CTU	WR-SR/ER-SR/Import of SR
2	9th May 2017	Whole month	Revised considering the latest LTA/MTOA granted by CTU	WR-SR/Import of SR
3	23rd May 2017	Whole month	Revised considering present Inter-regional flow pattern	Import of NR
4	28th July 2017	01st August'17 to 06th August'17	Revised due to forced outage of HVDC Mundra-Mahindragarh Bipole on Tower collapse	WR-NR / Import of NR
		07th August'17 to 31st August'17	Revised STOA margins due to approval of LTA/MTOA by CTU	WR-NR / Import of NR
5	31st July 2017	Whole month	Revised STOA margins due to approval of LTA/MTOA by CTU	WR-NR / Import of NR
		Whole month	Revised STOA margin due planned outage of Talcher StgII U#4, Simhadri U#3, and other generators in Southern Region	ER-SR / Import of SR
6	04th August 2017	05th August 2017 to 31st August 2017	Revised considering pattern of Inter-regional flows towards NR	Import of NR
7	4th August 2017	6th August 2017	Revised due to Urgent shutdown of 765kV Sholapur-Raichur-II	WR-SR/Import of SR
8	6th August 2017	07th August 2017 to 9th August 2017	Revised due to Restoration of HVDC Mundra-Mahindragarh Pole-1 on Emergency restoration system and forced outage of HVDC Mundra-Mahindragarh Pole-2 on Tower collapse	WR-NR / Import of NR
9	8th August 2017	9th August 2017 to 10th August 2017	Revised due to continuous shutdown of 765kV Bus-I at Aurangabad	WR-SR/Import of SR
10	10th August 2017	12th August 2017 to 14th August 2017	Revised due to HVDC Talcher-Kolar Bipole Shutdown on daily basis for line crossing works of 765 KV LILO of Kurnool-Thiruvalam line at Kadapa, 765 KV Chilakaluripeta-Kadapa line, 765 KV Vemagiri –Chilakaluripeta line, 400KV Kadapa- NP Kunta Line.	ER-SR / Import of SR
11	12th August 2017	13th August 2017	Revised due to shutdown of HVDC Talcher kolar Bipolefor line crossing works of 765 KV LILO of Kurnool-Thiruvalam line at Kadapa, 765 KV Chilakaluripeta-Kadapa line, 765 KV Vemagiri –Chilakaluripeta line, 400KV Kadapa- NP Kunta Line.	ER-SR / Import of SR
			Revised due to Emergency outage of 400 kV Bongaigaon - Alipurduar I and II lines and 220 kV Salakati - Alipurduar line(Flood in Alipurduar substation)	ER-NER/NER-ER
12	17th August 2017	19th August 2017	Revised due to emergency shutdown 400kV Nizamabad-Dichipally -1 and 2 (One by one)	WR-SR/Import of SR

ASSUMPTIONS IN BASECASE					
					Month : August'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	10497	8528	3609	3397
2	Haryana	8596	8584	1533	1533
3	Rajasthan	9006	8817	4563	4520
4	Delhi	5341	5181	853	853
5	Uttar Pradesh	14805	16256	9962	9981
6	Uttarakhand	1908	1745	980	979
7	Himachal Pradesh	1269	986	1118	1107
8	Jammu & Kashmir	2138	1165	1034	1038
9	Chandigarh	341	262	0	0
10	ISGS/IPPs	26	27	20580	17730
	Total NR	53927	51551	44232	41138
II	EASTERN REGION				
1	Bihar	4058	2540	238	178
2	Jharkhand	1324	897	187	187
3	Damodar Valley Corporation	3150	2572	4808	3850
4	Orissa	4422	3237	3382	2120
5	West Bengal	8620	5872	5753	4270
6	Sikkim	90	90	0	0
7	Bhutan	245	245	1493	1493
8	ISGS/IPPs	571	568	11250	8880
	Total ER	22450	15993	27052	20919
III	WESTERN REGION				
1	Maharashtra	16411	11943	11524	8836
2	Gujarat	12600	9774	8990	7258
3	Madhya Pradesh	6788	5553	3473	3351
4	Chattisgarh	3711	2946	2656	2025
5	Daman and Diu	320	289	0	0
6	Dadra and Nagar Haveli	690	742	0	0
7	Goa-WR	562	319	0	0
8	ISGS/IPPs	3794	3496	33999	28312
	Total WR	44876	35062	60643	49781



IV	SOUTHERN REGION				
1	Andhra Pradesh	8762	7562	6412	5385
2	Telangana	7965	6695	5245	3519
3	Karnataka	9680	8700	6779	5232
4	Tamil Nadu	14600	12900	8305	6705
5	Kerala	3650	1950	1572	283
6	Pondy	395	395	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	11261	11290
	Total SR	45141	38291	39573	32413
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	143	87	0	0
2	Assam	1214	1070	240	200
3	Manipur	154	78	0	0
4	Meghalaya	262	209	232	194
5	Mizoram	97	69	8	8
6	Nagaland	123	83	22	16
7	Tripura	235	250	34	41
8	ISGS/IPPs	100	60	1930	1804
	Total NER	2328	1906	2466	2263
	Total All India	168967	143047	175460	148010

