

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

Issue Date: 22nd September 2017

Issue Time: 1200 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 September 2017 to 30th September 2017	00-06	2500	500	2000	55	1945		
		06-18				65	1935		
		18-24				55	1945		
WR-NR*	1st September 2017 to 5th September 2017	00-24	9050	500	8550	8330	220		
	6th September 2017 to 8th	00-830	9050	500	8550	8330	220		
		0830-24	7550	500	7050	8330	0		
	9th September 2017	00-0630	9050	500	8550	8330	220		
		0630-18	7700	500	7200	8330	0		
		18-24	9050	500	8550	8330	220		
	10th September 2017 to 13th September 2017	00-24	9050	500	8550	8330	220		
	14th September 2017	00-0730	9050	500	8550	8330	220		
		730-24	7950	500	7450	8330	0		
	15th September 2017	00-24	9050	500	8550	8330	220		
	16th September 2017	00-0730	9050	500	8550	8330	220		
		0730-24	9050	500	8550	8330	220		
	17th September 2017 to 22nd September 2017	00-24	9050	500	8550	8330	220		
	23rd September 2017	00-630	9050	500	8550	8330	220		
		0630-12	7900	500	7400	8330	0	-1150	Revised due to Emergency shutdown of 765kV Gwalior-Phagi-II
12-24'		9050	500	8550	8330	220			
24th September 2017 to 30th September 2017	00-24	9050	500	8550	8330	220			
NR-ER*	1st September 2017 to 30th September 2017	00-06	2000	200	1800	193	1607		
		06-18'	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st September 2017 to 30th September 2017	00-24	4500	300	4200	2983	1217		
W3-ER	1st September 2017 to 30th September 2017	00-24	No limit is being specified.						
ER-W3	1st September 2017 to 30th September 2017	00-24	No limit is being specified.						

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WR-SR	1st September 2017 to 20th September 2017	00-05	4350	500	3850	3483	367			
		05-22	4350		3850		367			
		22-24	4350		3850		367			
	21st September 2017 to 22nd September 2017	00-05	4700	500	4200	3483	717			
		05-22	4700		4200		717			
		22-24	4700		4200		717			
	23rd September 2017	00-730	4700	500	4200	3483	717		Revised due to shutdown of 765kV Aurangabad-Sholapur-II	
		0730-22	4500		4000		517			-200
		22-24	4500		4000		517			-200
	24th September 2017	00-05	4500	500	4000	3483	517			
		05-22	4500		4000		517			-200
		22-24	4500		4000		517			-200
	25th September 2017	00-0730	4700	500	4200	3483	717		Revised due to shutdown of 765kV Aurangabad-Sholapur-I	
		0730-22	4500		4000		517			-200
		22-24	4500		4000		517			-200
26th September 2017	00-05	4500	500	4000	3483	517				
	05-22	4500		4000		517			-200	
	22-24	4500		4000		517			-200	
27th September 2017 to 30th September 2017	00-05	4700	500	4200	3483	717				
	05-22	4700		4200		717				
	22-24	4700		4200		717				
SR-WR *	1st September 2017 to 30th September 2017	00-24	No limit is being Specified.							
ER-SR	1st September 2017 to 11th September 2017	00-06	3450	250	3200	3053	147			
		06-18'				3138	62			
		18-24				3053	147			
ER-SR	12th September 2017 to 20th September 2017	00-06	3450	250	3200	2610	590			
		06-18'				2695	505			
		18-24				2610	590			
	21st September 2017 to 30th September 2017	00-06	3750	250	3500	2610	890			
06-18	2695	805								
18-24	2610	890								
SR-ER *	1st September 2017 to 30th September 2017	00-24	No limit is being Specified.							
ER-NER	1st September 2017 to 7th September 2017	00-17	1400	45	1355	225	1130			
		17-23	1400		1355		1130			
		23-24	1400		1355		1130			
	8th September 2017 to 30th September 2017	00-17	1170	45	1125	225	900			
		17-23	1190		1145		920			
		23-24	1170		1125		900			
NER-ER	1st September 2017 to 30th September 2017	00-17	1300	45	1255	0	1255			
		17-23	1170		1125		1125			
		23-24	1300		1255		1255			
W3 zone Injection	1st September 2017 to 30th September 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-

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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 September 2017 to 5th September 2017	00-05	12900	800	12100	11313	787		
		05-08	12900		12100		787		
		08-18	12900		12100		787		
		18-23	11300		10500		0		
		23-24	12900		12100		787		
	6th September 2017 to 07th September 2017	00-05	12900	800	12100	11313	787		
		05-0830	12900		12100		787		
		0830-18	10800		10000		0		
		18-23	9450		8650		0		
		23-24	10800		10000		0		
	08th September 2017	00-05	12900	800	12100	11313	787		
		05-0830	12900		12100		787		
		0830-18	10800		10000		0		
		18-23	9700		8900		0		
		23-24	10800		10000		0		
	09th September 2017	00-0630	12900	800	12100	11313	787		
		0630-08	11000		10200		0		
		08-18	11000		10200		0		
		18-23	11600		10800		0		
		23-24	12900		12100		787		
	10th September 2017 to 13th September 2017	00-05	12900	800	12100	11313	787		
		05-08	12900		12100		787		
		08-18	12900		12100		787		
		18-23	11600		10800		0		
		23-24	12900		12100		787		
	14th September 2017	00-05	12900	800	12100	11313	787		
		05-0730	12900		12100		787		
		0730-18	11350		10550		0		
		18-23	10200		9400		0		
		23-24	11350		10550		0		
	15th September 2017	00-05	12900	800	12100	11313	787		
		05-08	12900		12100		787		
		08-18	12900		12100		787		
		18-23	11600		10800		0		
		23-24	12900		12100		787		
	16th September 2017	00-05	12900	800	12100	11313	787		
		05-0730	12900		12100		787		
		0730-18	12900		12100		787		
		18-23	11600		10800		0		
		23-24	12900		12100		787		
17th September 2017 to 22nd September 2017	00-05	12900	800	12100	11313	787			
	05-08	12900		12100		787			
	08-18	12900		12100		787			
	18-23	11600		10800		0			
	23-24	12900		12100		787			

NR	23rd September 2017	00-0630	12900	800	12100	11313	787	Revised due to Emergency shutdown of 765kV Gwalior-Phagi-II	
		0630-08	11300		10500		0		-1600
		08-12	11300		10500		0		-1600
		12-18	12900		12100		12100		
		18-23	11600		10800		0		
		23-24	12900		12100		787		
	24th September 2017 to 30th September 2017	00-05	12900	800	12100	11313	787		
		05-08	12900		12100		787		
		08-18	12900		12100		787		
		18-23	11600		10800		0		
23-24		12900	12100		787				
NER	1st September 2017 to 7th September 2017	00-17	1400	45	1355	225	1130		
		17-23	1400		1355		1130		
		23-24	1400		1355		1130		
	8th September 2017 to 30th September 2017	00-17	1170	45	1125	225	900		
		17-23	1190		1145		920		
		23-24	1170		1125		900		
WR									
SR	1st September 2017 to 11th September 2017	00-05	7800	750	7050	6536	514		
		05-06	7800		7050	6536	514		
		06-18	7800		7050	6621	429		
		18-22	7800		7050	6536	514		
		22-24	7800		7050	6536	514		
	12th September 2017 to 20th September 2017	00-05	7800	750	7050	6093	957		
		05-06	7800		7050	6093	957		
		06-18	7800		7050	6178	872		
		18-22	7800		7050	6093	957		
		22-24	7800		7050	6093	957		
	21st September 2017 to 22nd September 2017	00-05	8450	750	7700	6093	1607		
		05-06	8450		7700	6093	1607		
		06-18	8450		7700	6178	1522		
		18-22	8450		7700	6093	1607		
		22-24	8450		7700	6093	1607		
	23rd September 2017	00-05	8450	750	7700	6093	1607		
		05-06	8450		7700	6093	1607		
		06-730	8450		7700	6178	1522		
		0730-18	8250		7500	6178	1322	-200	
		18-22	8250		7500	6093	1407		
		22-24	8250		7500	6093	1407		
	24th September 2017	00-05	8250	750	7500	6093	1407		
		05-06	8250		7500	6093	1407		
		06-18	8250		7500	6178	1322	-200	
		18-22	8250		7500	6093	1407		
		22-24	8250		7500	6093	1407		
	25th September 2017	00-05	8450	750	7700	6093	1607		
		05-06	8450		7700	6093	1607		
06-0730		8450	7700		6178	1522			
0730-18		8250	7500		6178	1322	-200		
18-22		8250	7500		6093	1407			
22-24		8250	7500		6093	1407			
26th September 2017	00-05	8250	750	7500	6093	1407			
	05-06	8250		7500	6093	1407			
	06-18	8250		7500	6178	1322	-200		
	18-22	8250		7500	6093	1407			
	22-24	8250		7500	6093	1407			
27th September 2017 to 30th September 2017	00-05	8450	750	7700	6093	1607			
	05-06	8450		7700	6093	1607			
	06-18	8450		7700	6178	1522			
	18-22	8450		7700	6093	1607			
	22-24	8450		7700	6093	1607			

\* 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 September 2017 to 30th September 2017	00-06	4500	700	3800	248	3552		
		06-18'			3800	368	3432		
		18-24	4500		3800	248	3552		
<b>NER</b>	1st September 2017 to 30th September 2017	00-17	1300	45	1255	0	1255		
		17-23	1170		1125		1125		
		23-24	1300		1255		1255		
<b>WR</b>									
<b>SR *</b>	1st September 2017 to 30th September 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.	Rev-1-5.7-10
	(n-1) Contingency of HVDC Champa-Kurukshetra Pole-1 leads to 2750 MW loading on second circuit.	Rev-6
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)	1 to 10
	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	11-12'
	Low voltage at Gazuwaka (East) bus	All
ER-NER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Sonabil-Samaguri 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 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.	Rev-1-5,7-10
		(n-1) Contingency of HVDC Champa-Kurukshetra Pole-1 leads to 2750 MW loading on second circuit	Rev-6
	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)	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 (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)	1 to 10
		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	11-12'
		Low Voltage at Gazuwaka (East) Bus	All

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

<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	22nd August 2017	01st September 2017 to 07th September 2017	Revised due to restriction on power flow from NER-NR on HVDC BNC-Agra due to maintenance activity in gas pipeline to Palatana units and generation restriction, and Change in pattern of simultaneous import towards NR	Import of NR
4	1st September 2017	01st September 2017 to 07th September 2017	Revised considering present load generation scenario in NER, outage of units of Palatana CCGT due to maintenance of fuel-supply link, and high hydro generation in Sikkim/Bhutan	ER-NER/Import of NER
5	5th September 2017	6th September 2017 to 08th September 2017	Revised due to shutdown of HVDC Champa-Kurukshetra Pole-1 for Commissioning of Pole-2	WR-NR / Import of NR
6	08th September 2017	09th September 2017	Revised due to shutdown of 765kV Agra-Gwalior-1 and 2( One by one)	WR-NR / Import of NR
7	11th September 2017	12th September 2017 to 30th September 2017	Revised STOA margin due to planned outage of Talcher StgII U#3	ER-SR / Import of SR
8	12th September 2017	14th September 2017	Revised due to shutdown of 765kV Phagi-Gwalior-1	WR-NR / Import of NR
9	15th September 2017	16th September 2017	Revised due shutdown of 765kV Phagi-Bhiwani-1	WR-NR / Import of NR
10	15th September 2017	16th September 2017	Revised due to deferred shutdown of 765kV Phagi-Bhiwani-1 line in view of grid security.	WR-NR / Import of NR
11	20th September 2017	21st September 2017 to 30th September 2017	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
12	22nd September 2017	23rd September 2017 to 24th September 2017	Revised due to shutdown of 765kV Aurangabad-Sholapur-II	WR-SR / Import of SR
		25th September 2017 to 26th September 2017	Revised due to shutdown of 765kV Aurangabad-Sholapur-I	
		23rd September 2017	Revised due to Emergency shutdown of 765kV Gwalior-Phagi-II	WR-NR / Import of NR

ASSUMPTIONS IN BASECASE					
				Month : September'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	9538	8003	3576	3524
2	Haryana	8123	6864	2062	2062
3	Rajasthan	9628	9037	4586	4602
4	Delhi	4955	4467	853	853
5	Uttar Pradesh	15515	15586	9854	9900
6	Uttarakhand	1915	1547	1079	982
7	Himachal Pradesh	1263	982	896	1013
8	Jammu & Kashmir	2427	1304	1037	1037
9	Chandigarh	317	210	0	0
10	ISGS/IPPs	27	27	23942	23972
	Total NR	53708	48027	47884	47944
II	EASTERN REGION				
1	Bihar	4100	2319	202	178
2	Jharkhand	1354	888	187	187
3	Damodar Valley Corporation	3190	2586	4808	3850
4	Orissa	4346	3151	3382	2160
5	West Bengal	8640	5784	5753	4270
6	Sikkim	90	89	0	0
7	Bhutan	215	212	1434	1434
8	ISGS/IPPs	522	521	13101	10221
	Total ER	22457	15550	28867	22300
III	WESTERN REGION				
1	Maharashtra	19685	11540	14102	8860
2	Gujarat	14398	11862	10214	9443
3	Madhya Pradesh	8164	7055	4500	4500
4	Chattisgarh	3785	3422	2710	2710
5	Daman and Diu	328	289	0	0
6	Dadra and Nagar Haveli	696	716	0	0
7	Goa-WR	577	302	0	0
8	ISGS/IPPs	3299	4098	26212	36388
	Total WR	50933	39284	57738	61902

IV	SOUTHERN REGION				
1	Andhra Pradesh	8442	7063	7236	5165
2	Telangana	9068	6607	5618	3638
3	Karnataka	8668	7785	5803	3989
4	Tamil Nadu	14129	11794	7641	6011
5	Kerala	3647	2024	1572	283
6	Pondy	393	385	0	0
7	Goa-SR	89	88	0	0
8	ISGS/IPPs	0	0	11434	11359
	Total SR	44436	35745	39304	30445
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	142	88	0	0
2	Assam	1141	1056	230	190
3	Manipur	158	85	0	0
4	Meghalaya	242	149	276	167
5	Mizoram	95	68	8	8
6	Nagaland	123	82	22	16
7	Tripura	287	190	81	82
8	ISGS/IPPs	100	60	1488	1514
	Total NER	2288	1779	2105	1977
	Total All India	173823	140385	175898	164568