

National Load Despatch Centre
Total Transfer Capability for August 2017

Issue Date: 04th August 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 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 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		Revised due to Urgent shutdown of 765kV Sholapur-Raichur-II
		0630-22	3350		2850		0	-1000	
		22-24	3350		2850		0	-1000	
	7th 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.						
ER-SR	1st 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 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 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.

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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 commissionned 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
ER									
NR	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 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		
NER	1st August 2017 to 31st August 2017	00-17	1045	45	1000	225	775		
		17-23	1065		1020		795		
		23-24	1045		1000		775		
WR									
SR	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	-1000	Revised due to Urgent shutdown of 765kV Sholapur-Raichur-II
		18-22	6800		6050	6493	0	-1000	
		22-24	6800		6050	6493	0	-1000	
	7th 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 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
	(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
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	---	

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)	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)	Rev-1-6
		(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
		Low Voltage at Gazuwaka (East) Bus	All

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
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

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