## National Load Despatch Centre Total Transfer Capability for November 2017

Issue Date: 27th October 2017 Issue Time: 2300 hrs Revision No. 4

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
	1st November	00-06				55	1945		
NR-WR*	2017 to 30th	06-18	2500	500	2000	65	1935		
	November 2017	18-24				55	1945		
WR-NR*	1st November 2017 to 30th November 2017	00-24	10050	500	9550	8368	1182		
	1st November	00-06	2000		1800	193	1607	<u> </u>	
NR-ER*	2017 to 30th	06-18	2000			303	1497	1	
	November 2017	18-24	2000		1800 1800	193	1607		
ER-NR*	1st November 2017 to 30th November 2017	00-24	4500	300	4200	3030	1170		
W3-ER	1st November 2017 to 30th November 2017	00-24	No limit is being specified.						
ER-W3	1st November 2017 to 30th November 2017	00-24				No limit i	s being specified.		
		00.05	5700		5200		1.400	1000	
	1st November	00-05	5700		5200		1490	1000	Revised due to commissioning of 400 kV
WR-SR	2017 to 30th	05-22	5700	500	5200	3710	1490	1000	Nizamabad-Shankarapalli D/C and consideration of present load generation
	November 2017	22-24	5700		5200		1490	1000	balance
SR-WR *	1st November 2017 to 30th November 2017	00-24	No limit is being Specified.						
	1 at November	00-06				3289	261	50	Revised due to commissioning of
ER-SR	1st November 2017 to 30th	06-18'	3800	250	3550	3374	176	50	400 kV Nizamabad-Shankarapalli
	November 2017	18-24		250	2330	3289	261	50	D/C and consideration of present load generation balance
		10-24				3209	201	30	Toda generation bulance
SR-ER *	1st November 2017 to 30th November 2017	00-24	No limit is being Specified.						

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	1 . 37 1	00.45	1120		1075		0.50		
	1st November	00-17	1120		1075		850		
ER-NER	2017 to 30th	17-23	1010	45	965	225	740		
	November 2017	23-24	1120		1075		850		
	1st November	00-17	1340		1295		1295		
NER-ER	2017 to 30th	17-23	1260	45	1215	0	1215		
	November 2017	23-24	1340		1295		1295		
W3 zone Injection	1 2017 to 30th 1 00-24 INO limit is being specified (in case of any constraints appearing in the system, w.3 zone export would be revised accordingly)								
Note: TTC/	ATC of S1-(S2&S	83) corrid	or, Import of	S3(Kerala),	Import of Pur	ijab and Import o	f DD & DNH is u	ploaded or	n NLDC website under Intra-
<b>Regional Se</b>	ction 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) KWPCL, 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									
		00-05	14350		13550	11398	2152		
NR	1st November 2017 to 30th	05-08	14350 14350	800	13550 13550		2152 2152		
	November 2017	18-23	13050		12250		852		
		23-24	14350		13550		2152		
	1st November	00-17	1120		1075		850		
NER	2017 to 30th November 2017	17-23 23-24	1010 1120	45	965 1075	225	740 850		
WR	Trovenior 2017	23 2 1	1120		1073		0.50		
		00-05	9500		8750	6998	1752	1050	Revised due to
	1st November	05-06	9500		8750	6998	1752	1050	commisioning of 400 kV
SR	2017 to 30th	06-18	9500	750	8750	7083	1667	1050	Nizamabad-Shankarapalli D/C and consideration of
	November 2017	18-22	9500		8750	6998	1752	1050	present load generation
		22-24	9500		8750	6998	1752	1050	balance

<sup>\*</sup> 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-NRATC = 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		
	1st November	00-06	4500	700	3800	248	3552				
NR*	2017 to 30th	06-18'			3800	368	3432				
	November 2017	18-24	4500		3800	248	3552				
	1st November	00-17	1340 1260	45	1295	0	1295				
NER	2017 to 30th	17-23			1215		1215				
	November 2017	23-24	1340		1295		1295				
WD											
WR											
	1st November										
SR *	2017 to 30th	00-24		No limit is being Specified.							
	November 2017										

<sup>\*</sup> 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)**

		Applicable Revisions
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	All
WR-NR	1. (n-1) Contingnecy 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	(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
w Lit	<ul> <li>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</li> <li>b. N-1 contingency of 765/400 kV 2x1500 MVA Maheswaram (PG) ICTs results in high loading of other ICT</li> </ul>	All except Rev 0-1
	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)**

			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
Exp	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
NEK -	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
		(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
SR	Import	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 0-1
		Low Voltage at Gazuwaka (East) Bus.	All

# National Load Despatch Centre Total Transfer Capability for November 2017

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	31st July 2017	Whole month	Revised considering the change in LTA/MTOA granted by CTU	WR- NR/Import of NR
2	20th Sepetmber 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
3	29th	Whole month	Due to commissioning and commercial operation of HVDC Champa Kurukshetra pole II and change in LTA/MTOA as approved by CTU	WR-NR / Import of NR
3	Sepetmber 2017	whole month	Revised STOA margins to change in LTA/MTOA approved by CTU	WR-SR / ER- SR/Import of SR
4	27th October 2017	Whole month	Revised due to commisioning of 400 kV Nizamabad- Shankarapalli D/C and consideration of present load generation balance	WR-SR/ER- SR/Import of SR

ASSUN	MPTIONS IN BASECASE				
				Month: Nov'17	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION	,	,	,	ì
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
Ш	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/IPPs	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/IPPs	160	60	1677	1260
	Total NER	2176	1569	2151	1578
	Total All India	163444	130721	169633	135488