

National Load Despatch Centre
Total Transfer Capability for November 2016

Issue Date: 28/7/2016

Issue Time: 1730 hrs

Revision No. 0

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 Nov 2016 to 30th Nov 2016	00-24	2500	500	2000	55	1945		
WR-NR*	1st Nov 2016 to 30th Nov 2016	00-24	6800	500	6300	6170	130		
NR-ER*	1st Nov 2016 to 30th Nov 2016	00-06	2000	200	1800	93	1707		
		06-18'	2000		1800	158	1642		
		18-24	2000		1800	93	1707		
ER-NR*	1st Nov 2016 to 30th Nov 2016	00-24	4200	300	3900	2531	1369		
W3-ER	1st Nov 2016 to 30th Nov 2016	00-24	No limit is being specified.						
ER-W3	1st Nov 2016 to 30th Nov 2016	00-24	No limit is being specified.						
WR-SR	1st Nov 2016 to 30th Nov 2016	00-24	4000	750	3250	3250	0		
SR-WR *	1st Nov 2016 to 30th Nov 2016	00-24	No limit is being Specified.						
ER-SR	1st Nov 2016 to 30th Nov 2016	00-06	2650	0	2650	2585	65		
		18-24				2650	0		
		06-18'				2650	0		
SR-ER *	1st Nov 2016 to 30th Nov 2016	00-24	No limit is being Specified.						
ER-NER	1st Nov 2016 to 30th Nov 2016	00-17	1260	45	1215	210	1005		
		23-24			1095		885		
		17-23			1140				
NER-ER	1st Nov 2016 to 30th Nov 2016	00-17	1330	45	1285	0	1285		
		23-24			1455		1455		
		17-23			1500				
W3 zone Injection	1st Nov 2016 to 30th Nov 2016	00-24	No limit is being specified (in case of skewed inter-regional flows or any constraints appearing in the system, W3 zone export would be revised accordingly)						

Note: TTC/ATC of S1-S2 corridor, 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).

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1) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry

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.

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak
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.
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	n-1 contingency of one circuit of 400 kV Kahalgaon-Banka leads to high loading on the other circuit
WR-SR & ER-SR	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit Low Voltage at Gazuwaka (East) Bus.
ER-NER	(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. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
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
W3 zone Injection	---

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 Nov 2016 to 30th Nov 2016	00-05	8500	800	7700	8701	0		
		05-08'	8500		7700		0		
		08-19'	8500		7700		0		
		19-24	8500		7700		0		
NER	1st Nov 2016 to 30th Nov 2016	00-17	1260	45	1215	210	1005		
		23-24					1095		
		17-23	1140						
WR									
SR	1st Nov 2016 to 30th Nov 2016	00-06	6650	750	5900	5835	65		
		06-18'	6650		5900	5900	0		
		18-24	6650		5900	5835	65		

* 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 Nov 2016 to 30th Nov 2016	00-06	4500	700	3800	148	3652		
		06-18'			3800	213	3587		
		18-24	4500		3800	148	3652		
NER	1st Nov 2016 to 30th Nov 2016	00-17	1330	45	1285	0	1285		
		23-24	1500		1455		1455		
		17-23							
WR									
SR *	1st Nov 2016 to 30th Nov 2016	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

NR	Import	(n-1) contingency of one circuit of 400 kV Kahalgaon-Banka leads to high loading on the other circuit 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.
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(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. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
	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.
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit
		Low Voltage at Gazuwaka (East) Bus.

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

ASSUMPTIONS IN BASECASE					
					Month : November '16
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	5110	3555	2742	2624
2	Haryana	6589	3521	1811	1808
3	Rajasthan	10160	9755	5385	5469
4	Delhi	3227	1828	295	295
5	Uttar Pradesh	14245	14441	6816	6782
6	Uttarakhand	1860	1307	402	224
7	Himachal Pradesh	1377	1000	286	195
8	Jammu & Kashmir	2478	2162	518	526
9	Chandigarh	175	96	0	0
10	ISGS/IPPs	0	0	19817	12344
	Total NR	45250	37695	38072	30267
II	EASTERN REGION				
1	Bihar	3508	2695	200	110
2	Jharkhand	1093	898	400	235
3	Damodar Valley Corporation	2433	2196	3400	2993
4	Orissa	3704	3123	2929	2122
5	West Bengal	7785	5989	5019	4314
6	Sikkim	110	70	0	0
7	Bhutan	245	215	712	420
8	ISGS/IPPs	567	571	11797	11069
	Total ER	19416	15756	24427	21263
III	WESTERN REGION				
1	Maharashtra	20367	14838	14802	8900
2	Gujarat	13479	11643	11932	9207
3	Madhya Pradesh	10921	7955	6257	4300
4	Chattisgarh	4078	2133	3314	1835
5	Daman and Diu	319	260	0	0
6	Dadra and Nagar Haveli	701	449	0	0
7	Goa-WR	508	509	0	0
8	ISGS/IPPs	2902	2907	30199	28106
	Total WR	53274	40693	66505	52348

IV	SOUTHERN REGION				
1	Andhra Pradesh	7571	5851	6552	5694
2	Telangana	7949	6679	2986	2492
3	Karnataka	8738	7465	6975	5040
4	Tamil Nadu	12702	11248	5315	3985
5	Kerala	3778	2498	1623	632
6	Pondy	391	235	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	13721	11687
	Total SR	41218	34064	37173	29530
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	121	59	0	0
2	Assam	1098	841	260	165
3	Manipur	149	76	0	0
4	Meghalaya	330	200	168	77
5	Mizoram	86	56	4	0
6	Nagaland	99	86	8	6
7	Tripura	214	139	88	88
8	ISGS/IPPs	100	60	1611	1211
	Total NER	2197	1517	2139	1547
	Total All India	161599	129955	169027	135391