National Load Despatch Centre
Total Transfer Capability for November 2016

Issue Date: 18/11/2016 Issue Time: 1500 hrs Revision No. 5

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 11th Nov 2016	00-24	7000	500	6500	5701	799		
	12th Nov 2016 to 18th Nov 2016	00-24	7000	500	6500	6291	209		
	19th Nov 2016	00-24	7200	500	6700	6291	409	200	Revised due to commissioning of 400 kV Shujalpur - RAPP D/C
	20th Nov 2016 to 30th Nov 2016	00-24	7200	500	6700	6291	409		
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 4th Nov 2016	00-06 18-24	2650	0	2650	2585	65		
		06-18'				2650	0		
	5th Nov 2016 to 10th Nov 2016	00-06	2650	0	2650	2142	508		
		06-18'				2207	443		
		18-24				2142	508		
	11th Nov 2016 to 30th Nov 2016	00-06 18-24	2650	0	2650	2585	65		
		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 23-24	1260	45	1215	210	1005		
		17-23	1140		1095		885		
NER-ER	1st Nov 2016 to 30th Nov 2016	00-17 23-24	1330	45	1285	0	1285		
		17-23	1500		1455		1455		
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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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

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) NSPCL, h) Korba, i) Sipat, j) KSK Mahanadi, k)DB Power, l) KWPCL, m)Vandana Vidyut n)RKM, o)GMR Raikheda, p)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 willl 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) Contingnecy 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 cicuit of 400 kV Kahalgaon-Banka leads to high loading on the other cicuit
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 11th Nov 2016	00-18	10000	800	9200	8232	968		
		18-23'	9350		8550		318		
		23-24	10000		9200		968		
	12th Nov 2016 to 18th Nov 2016	00-18	10000	800	9200	8822	378		
		18-23'	9350		8550		0		
		23-24	10000		9200		378		
	19th Nov 2016	00-18	10300	800	9500	8822	678	300	Revised due to commissioning of 400 kV Shujalpur - RAPP D/C
		18-23'	9600		8800		0	250	
		23-24	10300		9500		678	300	
	20th Nov 2016 to 30th Nov 2016	00-18	10300	800	9500	8822			
		18-23'	9600		8800				
		23-24	10300		9500				
NER	1st Nov 2016 to 30th Nov 2016	00-17 23-24	1260	45	1215	210	1005		
		17-23	1140		1095		885		
WR									
SR	1st Nov 2016 to 4th Nov 2016	00-06	6650	750	5900	5835	65		
		06-18'	6650		5900	5900	0		
		18-24	6650		5900	5835	65		
	5th Nov 2016 to 10th Nov 2016	00-06	6650	750	5900	5392	508		
		06-18'	6650		5900	5457	443		
		18-24	6650		5900	5392	508		
	11th 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 23-24	1330	45	1285	0	1285		
		17-23	1500		1455		1455		
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) Contingnecy 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 cntingency 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
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
1	29/10/2016	Whole Month	Revised considering the commissioning of 765kV Phagi-Bhiwani Ckt-II, the current rating of 400 kV isolators at Dhanaunda as 2000Amp and also present Inter-Regional flow pattern.	WR-NR/ Import of NR
2	11-04-16	5/11/2016 to 10/11/2016	LTA revised considering planned outage of Talcher Stg 2 unit 5	ER-SR/ Import of SR
3	11-11-16	12/11/2016 to 30/11/2016	STOA margin revised considering part operationalization of LTA/MTOA of KSK Mahanadi and MB Power	WR-NR/ Import of NR
4	17/11/2016	20/11/2016 to 30/11/2016	Revised due to commissioning of 400 kV Shujalpur - RAPP D/C	WR-NR/ Import of NR
5	18-11-16	19-11-16	Revised due to commissioning of 400 kV Shujalpur - RAPP D/C	WR-NR/ Import of NR

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