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 Jan 2016 to 31st Jan 2016	00-24	2500	500	2000	706	1294		
WR-NR*	1st Jan 2016 to 31st Jan 2016	00-24	7700	500	7200	6103	1097		
NR-ER*	1st Jan 2016 to 31st Jan 2016	00-06 06-18' 18-24	2000 2000 2000	200	1800 1800 1800	293 358 293	1507 1442 1507		-
ER-NR*	1st Jan 2016 to 31st Jan 2016	00-24	3800	300	3500	2431	1069		
W3-ER <sup>\$</sup>	1st Jan 2016 to 31st Jan 2016	00-24					s being specified. allowed via W3-EI	R-NR.	
ER-W3	1st Jan 2016 to 31st Jan 2016	00-24			No limit is	s being specified.			
	1st Jan 2016 to 2nd Jan 2016	00-24	3500	750	2750	3250	0		
	3rd Jan 2016	00-24	1000	500	500	3250	0		
WR-SR	4th Jan 2016	00-24	1000	500	500	3250	0	-2500	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.
	5th Jan 2016	00-24	3500	750	2750	3250	0		
	6th Jan 2016 to 31st Jan 2016	00-24	4000	750	3250	3250	0		
SR-WR *	1st Jan 2016 to 31st Jan 2016	00-24				No limit i	s being Specified.		
		00-06							
ER-SR	1st Jan 2016 to 31st Jan 2016	18-24	2650	0	2650	2585 2650	65		
SR-ER*	1st Jan 2016 to 31st Jan 2016	00-24					s being Specified.	ı	

Issue Date: 03/01/2016 Issue Time: 1145 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
ER-NER	1st Jan 2016 to	00-17 23-24	1160	45	1115	210	905		
EK-NEK	31st Jan 2016	17-23	1100	43	1055	210	845		
NER-ER	1st Jan 2016 to	00-17 23-24	1110	45	1065	0	1065		
	31st Jan 2016	17-23	950		905		905		
W3 zone Injection  1st Jan 2016 to 31st Jan 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 &

<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).

Issue Date: 03/01/2016 Issue Time: 1145 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
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- \$ As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.
- 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) KWPCL, n) Vandana Vidyut
- # 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.

#### **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	1. n-1 contingency of one cicuit of 400 kV Biharshariff- Lakhisarai 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
EK-5K	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 cntingency 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									
LIX									
		00-05	11000		10200		1666		
NR	1st Jan 2016 to	05-08'	11100	800	10300	8534	1766		
112	31st Jan 2016	08-19'	11000	000	10200	0331	1666		
		19-24	10250		9450		916		
NER	1st Jan 2016 to 31st Jan 2016	00-17 23-24	1160	45	1115	210	905		
	313t 3th 2010	17-23	1100		1055		845		
WR									
VV IX									
	1st Jan 2016 to	00-06	6150	750	5400	5835	0		
	2nd Jan 2016 to	06-18'	6150		5400	5900	0		
		18-24	6150		5400	5835	0		
		00-06	3650		3150	5835	0		
	3rd Jan 2016	06-18'	3650	500	3150	5900	0		
		18-24	3650		3150	5835	0		
		00-06	3650		3150	5835	0		Revised due to outage of
SR	4th Jan 2016	06-18'	3650	500	3150	5900	0	-2500	765kv Raichur-Sholapur
		18-24	3650		3150	5835	0		Ckt-2
		00-06	6150		5400	5835	0		
	5th Jan 2016	06-18'	6150	750	5400	5900	0		
		18-24	6150		5400	5835	0		
	6th Jan 2016 to	00-06	6650		5900	5835	65		
	31st Jan 2016	06-18'	6650	750	5900	5900	0		
	515t Jan 2010	18-24	6650		5900	5835	65		

<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	
NR*	1st Jan 2016 to 31st Jan 2016	00-06	4500	700	3800 3800	999 1064	2801 2736			
1111		18-24	4500		3800	999	2801			
NER	1st Jan 2016 to	00-17 23-24	1110	45	1065	0	1065			
	31st Jan 2016	17-23	950		905		905			
WR										
SR *	1st Jan 2016 to 31st Jan 2016	00-24		No limit is being Specified.						

<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**

	,	(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C
	Import	
NR		1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.
INK	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA
NER		ICT at Misa. n-1 entingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
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.
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit
SK	ппрогі	Low Voltage at Gazuwaka (East) Bus.

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
			STOA margin revised due to change in LTA/MTOA towards NR	WR-NR / import of NR
1	22/12/2015	Whole month of January 2016	Revised due to commissioning of 765 kV Aurangabad - Sholapur D/C, 400 kV Kolhapur - Kudgi D/C and 765 kV Raichur - Kurnool ckt 1	WR-SR
	22/12/2013		Revised due comissioning of new transmission elements	ER-NR
			Revised due commissioning of 765 kV Aurangabad-Sholapur D/C, 765 kV Dharamjaigarh - Jabalpur D/C and considering the present inter regional power flow pattern	W3 Zone injection
2	31/12/2105 5/12/2015 Whole mon of January	1/12/2015 to 5/12/2015	Revised due to shutdown of HVDC Bhadrawati pole 1	WR- SR/Import of SR
2		Whole month of January 2016	Revised considering new new lines commissioned and outage of 220 kV Balipara - Samaguri	ER-NER/NER- ER
3	2/1/2016	3/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	WR- SR/Import of SR
4	3/1/2016	4/1/2016	Revised due to Outage of 765kV Raichur-Sholapur ckt-2.	WR- SR/Import of SR

ASSL	JMPTIONS IN BASECASE				
				Month: January '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	5199	3202	2642	2259
2	Haryana	5948	3423	3088	3088
3	Rajasthan	9489	8509	5784	5708
4	Delhi	3966	2030	905	905
5	Uttar Pradesh	12457	12419	5395	5351
6	Uttarakhand	1665	1402	614	350
7	Himachal Pradesh	1392	1023	219	76
8	Jammu & Kashmir	2184	2517	379	155
9	Chandigarh	234	116	0	0
10	ISGS/IPPs	0	0	18010	10990
	Total NR	42534	34642	37036	28882
II	EASTERN REGION				
1	Bihar	2642	1775	180	100
2	Jharkhand	1121	739	455	215
3	Damodar Valley Corporation	2466	1899	3485	2815
4	Orissa	3449	2379	2390	1576
5	West Bengal	6671	4388	4796	3378
6	Sikkim	98	64	0	0
7	Bhutan	245	245	352	0
8	ISGS/IPPs	602	599	10700	9171
	Total ER	17293	12089	22359	17255
Ш	WESTERN REGION				
1	Maharashtra	20219	10937	14007	7706
2	Gujarat	12105	8961	8303	5316
3	Madhya Pradesh	9578	3649	5550	1333
4	Chattisgarh	3568	2205	2661	1570
5	Daman and Diu	283	203	0	0
6	Dadra and Nagar Haveli	798	562	0	0
7	Goa-WR	469	302	0	0
8	ISGS/IPPs	835	837	26803	19253
	Total WR	47856	27657	57324	35178

IV	SOUTHERN REGION				
1	Andhra Pradesh	6017	5521	5699	5264
2	Telangana	7012	5973	2713	2190
3	Karnataka	8161	7225	6446	5250
4	Tamil Nadu	13147	11563	7036	4865
5	Kerala	3409	2427	1687	701
6	Pondy	383	383	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	12143	12143
	Total SR	38218	33181	35724	30413
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	95	43	0	0
2	Assam	877	636	192	122
3	Manipur	98	58	0	0
4	Meghalaya	292	181	147	86
5	Mizoram	68	43	4	4
6	Nagaland	80	65	8	6
7	Tripura	190	88	85	85
8	ISGS/IPPs	0	0	1272	867
	Total NER	1700	1114	1708	1170
	T-4-1 All II- II-	4.47000	400000	454454	440000
	Total All India	147602	108682	154151	112899