Issue Date: 26/6/2016 Issue Time: 1140 hrs Revision No. 10

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 June 2016 to 30th June 2016	00-24	2500	500	2000	149	1851		
	1st June 2016 to 15th June 2016	00-24	5850	500	5350	6170	0		
WR-NR*	16th June 2016 to 30th June 2016	00-24	6700	500	6200	6170	30		
	1-4 I 2016 4-	00-06	2000		1800	293	1507		
NR-ER*	1st June 2016 to 30th June 2016	06-18'	2000	200	1800	358	1442		
	30th Julie 2010	18-24	2000		1800	293	1507		
ER-NR*	1st June 2016 to 30th June 2016	00-24	3800	300	3500	2431	1069		
	1 . 1 2016 .		l .			NI. Ilimite	- 1iiii		
W3-ER <sup>\$</sup>	1st June 2016 to 30th June 2016	00-24					s being specified. allowed via W3-El	R-NR.	
ER-W3	1st June 2016 to 30th June 2016	00-24			No limit is	s being specified.			
	1 at Ivan 2016								
	1st June 2016 to 9th June 2016	00-24	4000	750	3250	3250	0		
	10th June 2016	00-08	4000	750	3250	3250	0		
		08-24	2200	,50	1450		0		
	11th June 2016 to	00-07	4000	750	3250	3250	0		
	19th June 2016	07-24	3750		3000	3250	0		
WR-SR	20th June 2016 to 21st June 2016	00-07	4000 3750	750	3250	3250 3250	0		
	22nd June 2016	07-24 00-24	4000	750	3000 3250	3250	0		
		00-24	4000		3250	3250	0		
	23rd June 2016	07-24	3750	750	3000	3250	0		
	24th June 2016 to 30th June 2016	00-24	4000	750	3250	3250	0		
SR-WR *	1st June 2016 to 30th June 2016	00-24				No limit i	s being Specified.		
	Sour suite 2010								
	1st June 2016 to	00-06 18-24	2650	0	2650	2585	65		
	2nd June 2016	06-18'	2030	U	2030	2650	0		
		00-05	2650		2650	2585	65		
	3rd June 2016 to	05-06'	2000	0	2000	2585	0		
	4th June 2016	06-18'	2000	0	2000	2650	0		
		18'-24	2000		2000	2585	0		
ER-SR	5th June 2016 to	00-06 18-24	2650	0	2650	2585	65		
	23rd June 2016	06-18'				2650	0		
		00-06	2650		2650	2585	65		
		0600-	2650		2650	2650	0		
	24th June 2016 to 30th June 2016	0830'	2030	0	2030	2030	0		
		0830- 1800'	2450		2450	2650	0		
		18'-24	2450		2450	2585	0		
SR-ER *	1st June 2016 to 30th June 2016	00-24				No limit i	s being Specified.		

Issue Date: 26/6/2016 Issue Time: 1140 hrs Revision No. 10

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 June 2016 to 22nd June 2016	00-17 23-24	1350	45	1305	210	1095		
	ZZIIG JUNE ZOTO	17-23	1160		1115		905		
	23rd June 2016	00-08 23-24	1350	45	1305	210	1095		
	23rd June 2016	08-17'	960	45	915	210	705		
		17-23	1160		1115		905		
ER-NER	24th June 2016 to 26th June 2016	00-17 23-24	1350	45 1305		210	1095		
EK-NEK	26th June 2016	17-23	1160		1115		905		
	27th June 2016	00-08 23-24 16- 17		45	1305	210	1095		Revised due to Shutdown of 400 kV Bongaigaon - Byrnihat.
		08-16'	880		835		625	-470	
		17-23	1160		1115		905		
	28th June 2016 to 30th June 2016	00-17 23-24	1350	45	1305	210	1095		
	Jour June 2010	17-23	1160		1115		905		
	1st June 2016 to 26th June 2016	00-17 23-24	1250	45	1205	0	1205		
	20th June 2016	17-23	1340		1295		1295		
NER-ER	27th June 2016	00-08 16- 17 23-24	1250	45	1205	0	1205		Revised due to Shutdown of 400 kV
		08-16'	1000		955		955	-250	Bongaigaon - Byrnihat.
		17-23	1340		1295		1295		
	28th June 2016 to 30th June 2016	00-17 23-24 1250		45	1205	0	1205		
	30th Julie 2016	17-23	1340		1295		1295		
W3 zone Injection	1st June 2016 to 30th June 2016	00-24				2			

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.

- \$ 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.

<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: 26/6/2016 Issue Time: 1140 hrs Revision No. 10

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
----------	------	-------------------------	--	-----------------------	--	--	--	---	----------

## **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 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  Under S/D of one ckt of 765kV Raichur-Sholapur, the constraint would be (n-1) of remaining 765kV  Sholapur-raichur would lead to Low voltage at Kolhapur, Mapusa  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									
		00-05	7800		7000		0		
	1st June 2016 to	05-08'	7800	800	7000	8601	0		
	15th June 2016	08-19'	7800		7000		0		
		19-24	7800		7000		0		
		00-05	8950		8150		0		
NR <sup>*</sup>	16th June 2016 to		8950	800	8150	8601	0		
- 1,22	23rd June 2016	08-19'	8950		8150		0		
		19-24	8950		8150		0		
		00-05	9600		8800		199		
	24th June 2016 to		9600	800	8800	8601	199		
	30th June 2016	08-19'	9600		8800		199		
		19-24	9600		8800		199		
	1st June 2016 to	00-17	1350		1305		1095		
	22nd June 2016	23-24		45		210			
		17-23	1160		1115		905		
		00-08	1350		1305		1095		
	23rd June 2016	23-24		45	915	210	705		
		08-17'	960	-			705		
		17-23			1115		905		
	24th June 2016 to	00-17	1350	45	1305	210	1095		
NER	26th June 2016	23-24 17-23	1160	45	1115		005		
		00-08	1100		1113		905		
		23-24	1250		1305		1005		Davisad due to Chutdown
	27th June 2016	23-24 16-17	1350	45	1303	210	210		Revised due to Shutdown of 400 kV Bongaigaon - Byrnihat.
	27th June 2016		880	43	835	210	625	470	
		08-16'			1115			-470	Бупшаі.
		17-23 00-17	1160		1113		905		
	28th June 2016 to	23-24	1350	45	1305	210	1095		
	30th June 2016	17-23	1160	43	1115	210	905		
		17-23	1100		1113		903		
WR									
		00-06	6650		5900	5835	65		
	1st June 2016 to	06-18'	6650	750	5900	5900	0		
	2nd June 2016	18-24	6650		5900	5835	65		
		00-05	6650		5900	5835	65		
	3rd June 2016 to	05-06'	6000		5250	5835	0		
SR	4th June 2016	06-18'	6000	750	5250	5900	0		
	2010	18-24	6000		5250	5835	0		
		00-06	6650		5900	5835	65		
	5th June 2016 to	06-18'	6650	750	5900	5900	0		
	9th June 2016	18-24	6650	.50	5900	5835	65		

		00-06	6650		5900	5835	65		
	10th June 2016	06-08'	6650	750	5900	5900	0		
	Tour June 2016	08-18'	4850	730	4100	5900	0		
		18-24	4850		4100	5835	0		
		00-06	6650		5900	5835	65		
	11th June 2016 to	06-07'	6650	750	5900	5900	0		
	19th June 2016	07-18'	6400	750	5650	5900	0		
		18-24	6400		5650	5835	0		
		00-06	6650		5900	5835	65		
	20th June 2016 to	06-07'	6650	750	5900	5900	0		
	21st June 2016	07-18'	6400	750	5650	5900	0		
		18-24	6400		5650	5835	0		
SR		00-06	6650		5900	5835	65		
	22nd June 2016	06-18'	6650		5900	5900	0		
		18-24	6650		5900	5835	65		
		00-06	6650		5900	5835	65		
	23rd June 2016	06-07'	6650	750	5900	5900	0		
	231d Julie 2010	07-18'	6400	730	5650	5900	0		
		18-24	6400		5650	5835	0		
		00-06	6650		5900	5835	65		
		0600-	((50		5000	5000	0	_	
	24th June 2016 to	0830'	6650	750	5900	5900	0		
	30th June 2016	0830-	6450	730	5700	5900	0		
		1800'	0430		3700	3900	U		
		18-24	6450		5700	5835	0		

<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).

Margin in Simultaneous import of NR = A

WR-NR ATC = BER-NR ATC = C

Margin for WR-NR applicants = A \* B/(B+C)Margin for ER-NR Applicants = A \* C/(B+C)

<sup>\*</sup> 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:

### **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
		00-06	4500		3800	442	3358		
NR*	NR* 1st June 2016 to 30th June 2016	06-18'	4500	700	3800	507	3293		
		18-24	4500		3800	442	3358		
	1st June 2016 to	00-17 23-24	1250	45	1205	0	1205		
	26th June 2016	17-23	1340		1295		1295		
NER	27th June 2016	00-08 16-17 23-24	1250	45	1205	0	1205		Revised due to Shutdown of 400 kV Bongaigaon - Byrnihat.
		08-16'	1000		955		955	-250	
		17-23	1340		1295		1295		
	28th June 2016 to	00-17 23-24	1250	45	1205	0	1205		
	30th June 2016	17-23	1340		1295		1295		
WR									
****	WK								
SR *	1st June 2016 to 30th June 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 one circuit of 400 kV Biharshariff- Lakhisarai leads to high loading on the other circuit						
Import	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.						
Evnort	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.						
Laport	(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						
	ICT at Misa. n-1 cntingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar						
<b>.</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA						
Export	ICT at Misa.						
	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit						
Immout	Under S/D of one ckt of 765kV Raichur-Sholapur, the constraint would be (n-1) of remaining 765kV Sholapur-raichur						
Import	would lead to Low voltage at Kolhapur, Mapusa						
	Low Voltage at Gazuwaka (East) Bus.						
	Import Export						

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
	24.14		STOA Margin revised considering the grnat of of MTOA.	WR-NR
1	31-Mar-16	Whole Month	STOA Margin revised considering the completion of ISGS Allocation towards SR.	NR-WR
2	2 5-Mar-16 Whole mont		Revised considering the present high generation trend in Rajasthan state	WR- NR/import of NR
-	3 Mai 10	Whole month	STOA margin revised due to change in LTA/MTOA allocation	NR-WR / Export of NR
3	31-May-16	1/6/2016 to 15/6/2016	Revised due to forced outage of 765kV Phagi-Bhiwani S/C	WR- NR/import of NR
4	2-Jun-16	3/6/2016 to 4/6/2016	Revised due to shutdown of 400 kV Jeypore-Gajuwaka ckt 1 & ckt 2	ER-SR / Import of SR
5	9-Jun-16	10-06-16	Revised due to shutdown of 765kV Sholapur-Raichur Ckt-2.	WR-SR / Import of SR
6	10-Jun-16	11/6/2016 to 19/6/2016	Revised due to shutdown of 400kV Ramagundam- Chandrapur Ckt-2.	WR-SR / Import of SR
7	19-Jun-16	20/6/2016 to 21/6/2016	Revised due to shutdown of 400 kV Ramagundam- Chandrapur Ckt-2.	WR-SR / Import of SR
8	22-Jun-16	23-06-16	Revised due to shutdown of 400 kV Ramagundam- Chandrapur Ckt-2.	WR-SR / Import of SR
			Revised due to Shutdown of 400 kV Bongaigaon - Azara.	ER-NER
9	24/6/2016 to		Revised due to shutdown of 400 kV Kolar AC Filter Bus-3	ER-SR / Import of SR
<i>3</i>	23-Jun-16	30/6/2016	Revised considering present Inter-Regional Flow Pattern.	WR-NR/ import of NR
10	26-Jun-16	27-06-16	Revised due to Shutdown of 400 kV Bongaigaon - Byrnihat.	ER-NER/ NER- ER

ASSU	MPTIONS IN BASECASE				
				Month : June '16	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW	) Peak (MW)	Off Peak (MW)
l	NORTHERN REGION				
1	Punjab	8037	9187	2694	2870
2	Haryana	7136	6607	2089	2090
3	Rajasthan	8262	7934	4898	4898
4	Delhi	4980	4853	938	938
5	Uttar Pradesh	12958	12026	6191	6330
6	Uttarakhand	1695	1469	976	843
7	Himachal Pradesh	1201	1299	879	913
8	Jammu & Kashmir	2209	1820	648	642
9	Chandigarh	291	259	0	0
10	ISGS/IPPs	0	0	20961	19557
	Total NR	46769	45453	40274	39080
II	EASTERN REGION				
1	Bihar	3085	2462	210	100
2	Jharkhand	1148	886	470	300
3	Damodar Valley Corporation	2769	2412	4082	3235
4	Orissa	3974	3053	3143	1978
5	West Bengal	7367	5327	5006	3600
6	Sikkim	99	64	0	0
7	Bhutan	215	215	1227	637
8	ISGS/IPPs	628	625	10953	10245
	Total ER	19285	15044	25090	20096
	WESTERN DESIGN				
	WESTERN REGION	40000	40070	4.4500	0045
	Maharashtra	19699	13672	14568	9815
	Gujarat Madhua Bradash	12968	10139	10079	7008
	Madhya Pradesh	7786	5193	3889	2717
	Chattisgarh	3455	2596	2116	1220
_	Daman and Diu	313	247	0	0
	Dadra and Nagar Haveli	740	660	0	0
	Goa-WR	463	247	0	0
8	ISGS/IPPs	1078	1076	27268	23455
	Total WR	46502	33830	57919	44214

COUTUEDN DECION				
				5024
Telangana	6982	6490	1686	1501
Karnataka	9040	7448	7353	5628
Tamil Nadu	15329	13542	8515	6715
Kerala	3503	2195	1590	657
Pondy	391	348	0	0
Goa-SR	89	89	0	0
ISGS/IPPs	0	0	13047	11948
Total SR	41902	36013	37761	31472
NORTH-EASTERN REGION				
Arunachal Pradesh	122	89	0	0
Assam	1057	846	308	170
Manipur	126	80	0	0
Meghalaya	261	181	173	123
Mizoram	81	65	8	8
Nagaland	103	100	24	21
Tripura	256	158	90	90
ISGS/IPPs	0	0	1503	1283
Total NER	2006	1519	2106	1695
Total All India	156464	121950	162150	136557
	Tamil Nadu Kerala Pondy Goa-SR ISGS/IPPS Total SR  NORTH-EASTERN REGION Arunachal Pradesh Assam Manipur Meghalaya Mizoram Nagaland Tripura ISGS/IPPS	Andhra Pradesh       6568         Telangana       6982         Karnataka       9040         Tamil Nadu       15329         Kerala       3503         Pondy       391         Goa-SR       89         ISGS/IPPs       0         Total SR       41902         NORTH-EASTERN REGION       122         Assam       1057         Manipur       126         Meghalaya       261         Mizoram       81         Nagaland       103         Tripura       256         ISGS/IPPs       0         Total NER       2006	Andhra Pradesh       6568       5901         Telangana       6982       6490         Karnataka       9040       7448         Tamil Nadu       15329       13542         Kerala       3503       2195         Pondy       391       348         Goa-SR       89       89         ISGS/IPPs       0       0         Total SR       41902       36013         NORTH-EASTERN REGION       36013         NORTH-EASTERN REGION       122       89         Assam       1057       846         Manipur       126       80         Meghalaya       261       181         Mizoram       81       65         Nagaland       103       100         Tripura       256       158         ISGS/IPPs       0       0         Total NER       2006       1519	Andhra Pradesh       6568       5901       5570         Telangana       6982       6490       1686         Karnataka       9040       7448       7353         Tamil Nadu       15329       13542       8515         Kerala       3503       2195       1590         Pondy       391       348       0         Goa-SR       89       89       0         ISGS/IPPs       0       0       13047         Total SR       41902       36013       37761         NORTH-EASTERN REGION       308       308         Manipur       122       89       0         Assam       1057       846       308         Manipur       126       80       0         Meghalaya       261       181       173         Mizoram       81       65       8         Nagaland       103       100       24         Tripura       256       158       90         ISGS/IPPs       0       0       1503         Total NER       2006       1519       2106