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 January 2014 to 31st January 2014	00-24	2500	500	2000	286	1714		
WR-NR ¹	1st January 2014 to 31st January 2014	00-17 23-24	3900	500	3400	3181	219		
		17-23	3900		3400	3181	219		
NR-ER *	1st January 2014 to 31st January 2014	00-17 23-24 17-23	1000 1100	200	800 900	200	600 700		
	1st January 2014 to 3rd January 2014	00-17 23-24	3800	300	3500	2118	1382		
ED NO	4th January 2014 to 7th January 2014	00-24	3100	300	2800	2118	1382 682		
ER-NR	8th January 2014	00-10 15-24	3100	300	2800	2118	682		
	9th January 2014 to	10-15'	2700		2400		282		
	31st January 2014	00-24	3100	300	2800	2118	682		
	1st January 2014 to 6th January 2014	00-24	1800	300	1500	0	1500		
	7th January 2014	00-09 18-24 09-18'	1800 1500	300	1500 1200	0	1500 1200		
W3-ER	8th January 2014	00-09	1800 1500	300	1500 1200	0	1200		
	9th January 2014	00-19 19-24	1500 1800	300	1200 1500	0	1500		
	10th January 2014 to 31st January 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st January 2014 to 31st January 2014	00-24	1000	300	700	700	0		
WR-SR	1st January 2014 to 31st January 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st January 2014 to 31st January 2014	00-24	1000	0	1000	0	1000		
	1 . 7	00-05	750		750		93		
ER-SR	1st January 2014 to 31st January 2014	10-19 05-10 19-24	1250	0	1250	657	593		
SR-ER*	1st January 2014 to 31st January 2014	00-17 23-24	1100	0	1100	197	903		
		17-23	1100		1100		903		
	1st January 2014	00-24 00-17	500	50	450	230	220		
	2nd January 2014	23-24 17-23	720 640	50	670 590	230	360		
	3rd January 2014	00-09 16-17 23-24 09-16'	720 700	50	670 650	230	440 420		
ER-NER ²	4th January 2014 to	17-23 00-17 23-24	640 720	50	590 670	230	360 440		
	6th January 2014	17-23	640		590		360		
	7th January 2014	00-09 16-17 23-24	720	50	670	230	440		
		09-16' 17-23	700 640		650 590		420 360		

Issue Date: 07/01/2014 Issue Time: 2000 hrs Revision No. 11

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-NER2	8th January 2014	00-08 16-17 23-24 08-16' 17-23	720 550 640	50	670 500 590	230	270 360	-100	Revised due to emergency shutdown of 400 kV Purena- Binaguri Ckt 3
	9th January 2014 to 31st January 2014	00-17 23-24 17-23	720 640	50	670 590	230	440		
NER-ER	1st January 2014 to 31st January 2014	00-17 23-24 17-23	570 570	100	470 470	0	470 470		
	1 . 7 . 2014	00.24	7.500	100	72 00	4000	200		
	1st January 2014	00-24	5600	400	5200	4900	300		
	2nd January 2014	00-08	5650 5200	400	5250 4800	4900	350		
S1-S2	3rd January 2014	00-19	5200		4800		0		
51-52		19-24	5650	400	5250	4900	350		
	4th January 2014 to 31st January 2014	00-24	5650	400	5250	4900	350		
Import of Punjab	1st January 2014 to 31st January 2014	00-24	5600	300	5300	3800	1500		
Import TTC for DD & DNH	1st January 2014 to 31st January 2014	00-24	980	0	980	LTA and MTO sched			
W3 zone	1st January 2014 to	00-08 23-24 8500	8300		670				
Injection	31st January 2014	08-16'	8000	200	7800	7630	170		
Injection	518t January 2014	16-17	9000		8800		1170		
		17-23	9500		9300		1670		

^{*} 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) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC $\ensuremath{B/B}$ seam
- 2) S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry
- 3) W3 $\,$ comprises of the following regional entities :
- a) Chattisgarh, b) Jindal Power Limited (JPL), c) Jindal Steel and Power Limited (JSPL), d) ACBL, e) LANCO Amarkantak
- $f)\;BALCO,\;g)\;Sterlite\;(\#1,3,4),\;h)\;NSPCL,\;i)\;Korba,\;j)\;Sipat,\;k)\;KSK\;Mahanadi,\;L)DB\;Power,\;m)\;KWPCL$

- 1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:
 - 765 kV Gwalior-Agra one circuit
 - 765 kV Bina-Gwalior one circuit

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

[#] The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be les. RLDC/ NLDC would factor this situation while issuing STOA approvals.

	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	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)						
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli						
ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharshariff						
W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C						
ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Raigarh-Sterlite						
WR-SR	Bhadrawati HVDC B/B link capacity						
SR-WR	Bhadrawati HVDC B/B link capacity						
ER-SR	Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka						
ER-SR							
SR-ER							
ER-NER	(n-1) contingency of 400 kV Kahalgaon-Biharshariff						
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa						
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.						
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga						
W3 zone Injection	(n-1) contingency of 400 kV 400 kV Raipur-Wardha						

^{*}Primary constraints

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									
	1st January 2014 to 3rd January 2014	00-17 23-24	7700	800	6900	5299	1601		
		17-23	7700		6900		1601		
	4th January 2014 to 7th January 2014	00-17 23-24	7000	800	6200	5299	901		
NR^1	7th surraity 2011	17-23	7000		6200		901		
NK	8th January 2014	00-10 15-24	7000	800	6200	5299	901		
		Oct-15	6600		5800		501	1	
	9th January 2014 to	00-17 23-24	7000	800	6200	5299	901		
	31st January 2014	17-23	7000		6200		901		
	1st January 2014	00-24	500	50	450	230	220		
	2nd January 2014	00-17 23-24	720	50	670	230	440		
		17-23	640		590		360		
	3rd January 2014	00-09 16-17	720	50	670	230	440		
		23-24							
		09-16'	700		650		420		
		17-23	640		590		360		
	4th January 2014 to 6th January 2014	00-17 23-24	720	50	670	230	440		
2	-	17-23	640		590		360		
NER ²	7th January 2014	00-09 16-17 23-24	720	50	670	230	440		
	7th 3th tai y 2014	09-16'	700	30	650	250	420		
		17-23	640		590		360		
		00-08 16-17	720		670		440		Revised due to emergency
	8th January 2014	23-24		50		230			shutdown of 400 kV Purena-Binaguri Ckt 3
		08-16'	550		500		270	-100	
		17-23	640		590		360		
	9th January 2014 to 31st January 2014	00-17 23-24	720	50	670	230	440		
WR	,	17-23	640		590		360		
		00.07							
SR	1st January 2014 to	00-05	1750	0	1750	1657	93		
SK	31st January 2014	05-10 19-24	2250	Ţ	2250	- 55 .	593		

^{1.} WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

2. ER-NER Total Transfer capability will be reduced to 450 MW in case of outage of any one of the 400kV Purnea-Biharshariff circuit.

^{• 765} kV Gwalior-Agra one circuit

^{• 765} kV Bina-Gwalior one circuit

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 January 2014 to	00-17 23-24	3500	700	2800	286	2514		
	31st January 2014	17-23	3600		2900		2614		
NER	1st January 2014 to	00-17 23-24	570	100	470	0	470		
	31st January 2014	17-23	570		470		470		
WR									
WK									
SR*	1st January 2014 to	00-17 23-24	2100	0	2100	197	1903		
	31st January 2014	17-23	2100		2100		1903		

^{*} 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

	Constraints	
	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
NR		
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff
MEN	Export	N-1 contingency of 400/220 kV, 2x315 MVA ICTs at Misa
		Bhadrawati HVDC B/B link capacity
SR	Import	Peak: (n-1) contingency of 400 kV Rourkela-Talcher
SK		Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka
	Export	

^{*}Primary constraints

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	04/11/2013	Whole Month	Margin on NR-ER Corridor revised considering the LTA/MTOA on NR-ER Path	NR-ER
			Revised due to change in Load Generation in WR/NR	WR-NR
2	27/11/2012	NA/In a a D.4 a a t-In	Commissioning of 400 kV Purnea-Biharshariff D/C and Network reconfiguration at Malda & Purnea.	ER-NR/ER-NER
2	27/11/2013	Whoe Month	Change in Load Generation Balance in ER	ER-SR
			Revised due to change in Inter-Regional flow pattern and Load generation change in ER/WR.	W3 Zone Injection
3	23/12/2013	Whoe Month	Revised due to Commissioning of Kudankulam and NLC II EXP.	S1-S2
4	27/12/2013	Whoe Month	Revised due to Load Generation Balance	ER-SR
5	31/12/2013	01/01/2014	Revised due Outage of 400kV Purnea-Binaguri Ckt-I &II	ER-NER
6	01/01/2014	2nd to 3rd Jan 2014	Revised due to shutdown of 400kV Nellore-Alamathy & 400kV Alamathy-Sriperumbudur	S1-S2
	01/01/2014	4th to 31st Jan 2014	Revised due to load generation balance.	31-32
7	02/01/2014	3rd Jan 2014	Revised due to Emergency Shut Down of 220 kV Agia-Sarusajai & 220 kV Boko-Sarusajai	ER-NER
8	03/01/2014	4th Jan 2014 - 31st Jan 2014	Revised due to shutdown of TEESTA Power Station	ER-NR
0	06/01/2014	7th Ion 2014	Revised due to shutdown of 400kV Sterlite-Raigarh Ckt-I	W3-ER
9	06/01/2014	7th Jan 2014	Revised due to emergency Shut Down of 220 kV Sarusajai- Agia	ER-NER
		8th Jan 2014	Revised due to shutdown of 400kV Maithon-Koderma D/C	ER-NR/ER-NER
10	10 07/01/2014 8th Jan 14 to 9th Jan 2014		Revised due to shutdown of 400kV Raigarh-Jharsuguda Ckt-1	W3-ER
11	07/01/2014	8th Jan 2014	Revised due to emergency shutdown of 400 kV Purena-Binaguri Ckt 3	ER-NER

ASSUMPTIONS IN BASECASE

Month: January '14

				O a a a a a 4. a a a			
		Lo	ad	Gener	ation		
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)		
ı	NORTHERN REGION						
1	Punjab	7000	4924	2546	2351		
2	Haryana	5559	4660	2770	2770		
3	Rajasthan	7051	6539	4002	4002		
4	Delhi	3974	3720	1514	1514		
5	Uttar Pradesh	11000	10322	6008	5756		
6	Jammu & Kashmir	1876	1185	584	429		
7	Uttarakhand	1543	902	713	340		
8	Himachal Pradesh	1327	730	444	523		
9	Chandigarh	224	118	0	0		
10	ISGS/IPPs			16740	11303		
	Total NR	39554	33100	35321	28988		
II	EASTERN REGION						
1	West Bengal	4900	4500	4837	3944		
2	Jharkhand	1110	770	561	561		
3	Orissa	3500	2200	2430	1699		
4	Bihar	1820	1320	0	0		
5	Damodar Valley Corporation	2600	2035	3439	3039		
6	Sikkim	40	40				
7	Bhutan	110	110	648	648		
8	ISGS/IPPs	131	241	6494	6762		
	Total ER	14211	11216	18409	16653		
III	WESTERN REGION						
1	Chattisgarh	3181	2462	1804	1065		
2	Madhya Pradesh	7637	5600	9905	7817		
3	Maharashtra	15506	12500	4366	2928		
4	Gujarat	11119	10121	11221	8374		
5	Goa	432	281	0	0		
6	Daman and Diu	245	208	0	0		
7	Dadra and Nagar Haveli	604	471	0	0		
8	ISGS/IPPs	590	590	16763	15466		
	Total WR	39314	32233	44059	35650		

IV	SOUTHERN REGION				
1	Andhra Pradesh	10900	9350	7204	6066
2	Tamil Nadu	11300	8617	6433	4962
3	Karnataka	7800	6499	5213	3549
4	Kerala	3225	2234	1917	760
5	Pondy	320	244	0	0
6	Goa	80	80	0	0
7	ISGS/IPPs			11130	10168
	Total SR	33625	27024	31897	25505
V	NORTH-EASTERN REGION				
1	Manipur	130	91	0	0
2	Meghalaya	280	196	110	95
3	Mizoram	85	60	8	4
4	Nagaland	120	84	20	10
5	Assam	1350	970	220	180
6	Tripura	260	130	100	100
7	Arunachal Pradesh	130	91	0	0
8	ISGS/IPPs			1020	735
	Total NER	2355	1622	1478	1124
	Total All India	129059	105195	131164	107920