Issue Date: 21/05/2013

Issue Time: 1245 hrs

Revision No. 14

	# against any corrido	r indicate	s that revision	has been don	e for this corric	lor			
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 May 2013 to 8th May 2013	00-24	1500	200	1300	286	1014		
NR-WR	9th May 2013 to 31st May 2013	00-24	2500	500	2000	286	1714		1. Revised due to upgradation of 400 kV Bina-Gwalior-Agra D/C to 765 kV 2. Revised due to commissioning of 76 kV Agra-Jhatikara.
	1st May 2013 to 8th May 2013	00-24	2000*	200	1800	1287	513		LTA revised due to commisioning of CGPL Unit-50.
	9th May 2013 to 12th May 2013	00-24	5700 ^Δ	500	5200^{Δ}	2787 ^Δ	2413		 Revised due to upgradation of 400 kV Bina-Gwalior-Agra D/C to 765 kV. Revised due to commissioning of 765 kV Agra-Jhatikara.
	13th May 2013 to	00-07 20-24	5700 ^Δ	500	5200^{Δ}	2787^{Δ}	2413		Revised due to shutdown of 400 kV
WR-NR ¹	16th May 2013	07-20'	5450 ^Δ		4950^{Δ}	2787	2163		Zerda-Bhinmal.
	17th May 2013 to 20th May 2013	00-24	5700 [∆]	500	5200^{Δ}	2787^{Δ}	2413		
	21st May 2013	00-07, 20-24	5700 [∆]	500	5200^{Δ}	2787^{Δ}	2413		Revised due to shutdown of 765 kV
	21st May 2015	07-20'	3100 ^Δ	300	2800^{Δ}	2787^{Δ}	13		Agra-Jhatikara.
	22nd May 2013 to 31st May 2013	00-24	5700 ^Δ	500	5200^{Δ}	2787^{Δ}	2413		
	1st May 2013 to	00-17	1000		800		800		
NR-ER	31st May 2013 to 31st May 2013	23-24 17-23	1100	200	900	0	900		
	1st May 2013 to 8th	00-17	2600	300	2300	1913	387		
	May 2013	17-23	2000	500	2000	1913	387		
ER-NR	9th May 2013 to 14th May 2013	00-17 23-24	3000	300	2700	1913	787		Revised due to increase in hydro generation pattern in Eastern Region
		17-23				1913	787		
	15th May 2013 to 31st May 2013	00-24	2600	300	2300	1913	387		Revised due to tower collapse of 400 k Maithon-Koderma D/C line.
	1st May 2013	00-24	1650	300	1350	0	1350		Revised due to network configuration changes in Eastern Region and other new generating units addition leading to change in power flow pattern.
	2nd May 2013	00-08	1650 1450	300 300	1350 1150	0	1350 1150		
	3rd May 2013 to 7th May 2013	00-24	1450	300	1150	0	1150		Revised due to shutdown of 400 kV Sterlite-Raigarh (LILO 1) and 400
	8th May 2013	00-18	1450	300	1150	0	1150		kV Raigarh-Rourkela 1
	9th May 2013 to	18-24 00-24	1650 1900	300 300	1350 1600	0	1350 1600		Revised due to load generation
	12th May 2013	00-24		500		0			balance review.
W3-ER#	13th May 2013	19-24 07-19'	1900 1650	300	1600 1350	0	1600 1350		Revised due to shutdown of 400 kV
	14th May 2013 to	07-19	1650	300	1350	0	1350		Rourkela-Jharsuguda-Raigarh.
	16th May 2013 17th May 2013 to	00-24'	1650	300	1350	0	1350		Revised due to extension of 400 kV
	19th May 2013 20th May 2013	00-19'	1650	300	1350	0	1350		Rourkela-Jharsuguda-Raigarh shutdown.
	20th May 2013 21st May 2013	19-24 00-24	1900 1900	300	1600 1600	0	1600 1600		
	21st May 2013 22nd May 2013 to	00-06,	1900	300	1600	0	1600		Revised due to shutdown of 400 kV
	23rd May 2013	20-24 06-20'	1600	300	1300	0	1300	300	-Rourkela-Sterlite-2.
	24th May 2013 to 31st May 2013	00-24	1900	300	1600	0	1600		

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Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	e for this corric 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 May 2013	00-24	1000	300	700	700	0		
	2nd May 2013	00-08 08-24'	1000 800	300 300	700 500	700 500	0		
	3rd May 2013 to								Revised due to shutdown of 400 kV
	7th May 2013	00-24	800	300	500	500	0		Sterlite-Raigarh (LILO 1) and 400 kV Raigarh-Rourkela 1
	8th May 2013	00-18 18-24	800 1000	300 300	500 700	500 700	0		
	9th May 2013 to								
ER-W3	13th May 2013	00-24	1000	300	700	700	0		
ER-005	14th May 2013 to 16th May 2013	00-24	800	300	500	500	0		Revised due to shutdown of 400 kV Rourkela-Jharsuguda-Raigarh.
	17th May 2013 to 19th May 2013	00-24	800	300	500	500	0		Revised due to extension of 400 kV
	20th May 2013	00-19'	800	300	500	700	0		- Rourkela-Jharsuguda-Raigarh - shutdown.
	21st May 2013 to	19-24	1000		700				
	31st May 2013 to	00-24	1000	300	700	700	0		
	1st May 2012 to								
WR-SR	1st May 2013 to 31st May 2013	00-24	1000	0	1000	1000	0		Revised due to change in MTOA Quantum.
SR-WR	1st May 2013 to 31st May 2013	00-24	1000	0	1000	0	1000		~
	1st May 2013 to 2nd May 2013	00-05 10-19	1000	0	1000	110	888		Review of TTC due to change in Load
		05-10	1000		1000	112	000		Generation scenario and also change in LTA Quantum.
		19-24	1000		1000		888		
	3rd May 2013 to 8th May 2013	00-05 10-19	1000	0	1000	- 112	888		
ER-SR		05-10	10004		10004		0004		
		19-24	1000^		1000^		888^		
	9th May 2013 to 31st May 2013	00-05 10-19	1200**	0	1200**	110	1088**		Revised due to change in Load
		05-10	1200**		1200**	112	1000**		Generation scenario
		19-24	1200**		1200**		1088**		
SR-ER	1st May 2013 to	00-17 23-24	700	0	700	197	503		
SK-EK	31st May 2013	17-23	700	0	700	197	503		
	1st May 2013 to 4th	00-17 23-24	475	35	440	230	210		Revised due to change in load
	May 2013	17-23	475		440	230	210		generation Balance.
	5th May 2013 to	00-17	525	25	490	230	260		Revised due to increase in hydro
	8th May 2013	23-24 17-23	525	35	490	230	260		generation in ER/Bhutan.
	9th May 2013 to	00-17	575		540	230	310		Revised due to increase in hydro
	14th May 2013	23-24		35					generation in ER/Bhutan.
		17-23	575		540	230	310		
ER-NER#	15th May 2013 to 19th May 2013	00-24	525	35	490	230	260		Revised due to tower collapse of 400 kV Maithon-Koderma D/C line
	20th May 2013 to 21st May 2013	00-24	525	35	490	230	260		Revised due to cancellation of shutdown of 400 kV Binaguri- Bonagaigan ckt-1.
	22nd May 2013 to	00-09,	525	25	490	220	260		Revised due to shutdown of 400 kV
	29th May 2013	18-24 09-18'	400	35	365	230	135	125	Binaguri-Bonagaigan ckt-1
	30th May 2013 to	00-24	525	35	490	230	260	125	
NED ED	31st May 2013 1st May 2013 to	00-17	520	100	420	0	420		
NER-ER	31st May 2013	23-24 17-23	320	100	220	0	220		
		17-23	520		220		220		

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S1-S2	1st May 2013 to 31st May 2013	00-24	5400	200	5200	4000	1200		Revised due to Non-commissioning Kudamkulam unit-1.
Import of	1st May 2013 to 4th May 2013	00-24	5400	300	5100	3243	1857		
Punjab	5th May 2013 to 31st May 2013	00-24	5600	300	5300	3350	1950		
Import TTC for DD & DNH	1st May 2013 to 31st May 2013	00-24	980	0	980	LTA and MTO. scheo			
	1st May 2013 to	00-17, 23-24	9000	200	8800	6870	1930		Revised due to change in power flow pattern consequent to upgradation of Bina-Gwalior-Agra D/C section
W3 zone	31st May 2013	17-23	9500		9300		2430		from 400 kV to 765 kV and other new generating units addition.
Injection		00-10	9000		8800		1930		Revised due to emergency shutdown
U U	4th May 2013	10-16'	8550	200	8350	6870	1480		of 400 kV Raipur-Wardha ck2 on
	2010	16-17 17-23	9000 9500		8800 9300		1930 2430		4th May 2013
	5th May 2013 to	00-17, 23-24	9000	200	8800	6870	1930		
	31st May 2013	17-23	9500		9300		2430		

1) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC 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
 [^] additional 200 MW can be transferred to SR if injection point is South odisha.

* Would be reviewed after completion of augmentation works at 765 kV Agra

** additional 300 MW can be transferred to SR if injection point is South odisha.

A. includes 1500 MW on the dedicated Mundra-Mohindergarh HVDC bipole of M/s Adani Power Limited which is scheduled separately from the generation at stage-III of APL Mundra (3*660 MW).

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 Agra-Jhatikara

• One of the 765/400 kV 1500 MVA ICT at Agra

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

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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

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	(n-1) contingency of 765/400 kV ICT at Agra
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
W3-ER	(n-1)contingency of 400 kV Sterlite-Rourkela
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 Rourkela-Raigarh
WR-SR	Bhadrawati HVDC B/B link capacity
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	(n-1) contingency of 400 kV Rourkela-Talcher*
SR-ER	
ER-NER	(n-1) contingency of 400 kV Farakka-Malda* High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon -I
NER-ER	(n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 220 kV Samaguri – Saruajai I*
S1-S2	(n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section
	*Primary constraints

*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 May 2013 to 8th May 2013	00-17 23-24 17-23	4600*	500	4100 4100	3200	900		LTA revised due to commisioning of CGPL Unit- 50	
	9th May 2013 to	00-17 23-24	8700 ^Δ	800	7900 [∆]	4700^{Δ}	3200		 Revised due to upgradation of 400 kV Bina-Gwalior- Agra D/C to 765 kV. Revised due to 	
	12th May 2013	17-23	8700	000	7900 ^Δ	4700	3200		commissioning of 765 kV Agra-Jhatikara. 3.Increase in hydro generation pattern in ER.	
NR ¹	13th May 2013 to 14th May 2013	00-07 20-24	8700 ^Δ	800	7900 [∆]	4700^{Δ}	3200		Revised due to shutdown of 400 kV Zerda-Bhinmal.	
		07-20' 00-07	8450 [∆]		7650 [∆]		2950		1. Revised due to shutdown of	
	15th May 2013 to 16th May 2013	20-24	8300 ^Δ	800	7500^{Δ}	4700^{Δ}	2800		400 kV Zerda-Bhinmal. 2. Revised due to tower	
	16th May 2013	07-20'	8050^{Δ}		7250^{Δ}		2550		collapse of 400 kV Maithon- Koderma D/C line.	
	17th May 2013 to 20th May 2013	00-24	8300 ^Δ	800	7500^{Δ}	4700^{Δ}	2800		Revised due to tower collapse of 400 kV Maithon-Koderma D/C	
	21st May 2013	00-07, 20-24	8300^{Δ}	800	7500^{Δ}	4700^{Δ}	2800		Revised due to shutdown of	
		07-20'	5700^{Δ}	600	5100^{Δ}	4700^{Δ}	400		765 kV Agra-Jhatikara.	
	22nd May 2013 to 31st May 2013	00-24	8300^{Δ}	800	7500^{Δ}	4700^{Δ}	2800			
	1st May 2013 to 4th May 2013		475	35	440	230	210		Revised due to change in load generation Balance.	
	-	17-23 00-17	475		440	230	210		generation Datanee.	
	5th May 2013 to 8th May 2013	23-24	525	35	490	230	260		Revised due to increase in hydro generation.	
	sui May 2015	17-23 00-17	525		490	230	260		nyuro generation.	
	9th May 2013 to 14th May 2013	23-24	575	35	540	230	310		Revised due to increase in hydro generation pattern.	
	14th Way 2013	17-23	575		540	230	310		Revised due to tower collapse	
NER #	15th May 2013 to 19th May 2013	00-24	525	35	490	230	260		of 400 kV Maithon-Koderma D/C line.	
	20th May 2013 to 21st May 2013	00-24	525	35	490	230	260		Revised due to cancellation of shutdown of 400 kV Binaguri- Bonagaigan ckt-1.	
	22nd May 2013 to	00-09, 18-24	525	35	490	230	260		Revised due to shutdown of 400 kV Binaguri-Bonagaigan	
	29th May 2013	09-18'	400	55	365	250	135	125	ckt-1	
	30th May 2013 to 31st May 2013	00-24	525	35	490	230	260			
WR										
	1 at May 2012 (00-05	2000		2000		888		Review of TTC due to change in	
	1st May 2013 to 2nd May 2013	10-19 05-10 19-24	2000	0	2000	1112	888		Load Generation scenario and also change in LTA quantum.	
CD	3rd May 2013 to	00-05 10-19	2000	0	2000	1112	888			
SR	8th May 2013	05-10 19-24	2000^	0	2000^	1112	888^			
	9th May 2013 to	00-05 10-19	2200**	0	2200**	1112	1088**		Revised due to change in Load	
	31st May 2013	05-10 19-24	2200**		2200**	-	1088**		Generation scenario	

* Would be reviewed after completion of augmentation works at 765 kV Agra ^ additional 200 MW can be transferred to SR if injection point is South odisha. ** additional 300 MW can be transferred to SR if injection point is South odisha.

Δ. includes 1500 MW on the dedicated Mundra-Mohindergarh HVDC bipole of M/s Adani Power Limited which is scheduled separately from the generation at stage-III of APL Mundra (3*660 MW).

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 Agra-Jhatikara
- One of the 765/400 kV 1500 MVA ICT at Agra
- 765 kV Gwalior-Agra one circuit
 765 kV Bina-Gwalior one circuit
- 705 KV Bina-Gwanor one circi

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 May 2013 to	00-17 23-24	2500	200	2300	286	2014		
	8th May 2013	17-23	2600		2400		2114		
NR	9th May 2013 to 31st May 2013	00-17 23-24	3500	200	3300	286	3014		1. Revised due to upgradation of 400 kV Bina-Gwalior-Agra D/C to 765 kV. 2. Revised due to commissioning
		17-23	3600		3400		3114		of 765 kV Agra-Jhatikara.
NER	1st May 2013 to 31st May 2013	00-17 23-24	520	100	420	0	420		
	51st May 2015	17-23	320		220		220		
WR									
		00.17							
SR	1st May 2013 to 31st May 2013	00-17 23-24	1700	0	1700	197	1503		
	515t Widy 2015	17-23	1700		1700		1503		

Limiting Constraints

	Import	(n-1) contingency of 400 kV Farakka-Malda*
NR	1	(n-1) contingency of 765/400 kV ICT at Agra*
INK	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
		(n-1) contingency of 400 kV Allahabad-Pusauli
	Import	High Loading of 220 kV BTPS-Agia
		(n-1) contingency of 400 kV Balipara – Bongaigaon-I
NER		(n-1) contingency of 400 kV Farakka-Malda*
	Export	(n-1) contingency of 220 kV Samaguri – Saruajai I*
		(n-1) contingency of 400 kV Balipara-Bongaigaon-I
	Import	Bhadrawati HVDC back to back capacity
SR		(n-1) contingency of 400 kV Rourkela-Talcher*
	Export	

ASSUMPTIONS IN BASECASE

S.No.	Name of State/Area			Generation			
	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)		
I	NORTHERN REGION						
1	Punjab	5637	5311	2111	212		
2	Haryana	5363	5014	3289	328		
3	Rajasthan	6574	5912	3466	3472		
4	Delhi	4605	3932	1416	141		
5	Uttar Pradesh	10824	10831	6163	5976		
6	Jammu & Kashmir	1825	1671	604	593		
7	Uttarakhand	1476	1081	757	673		
8	Himachal Pradesh	1043	943	590	49:		
9	Chandigarh	227	192	0			
10	ISGS			16916	1462		
	Total NR	37574	34888	35312	3266		
Ш	EASTERN REGION						
1	West Bengal	6658	5280	4836	367		
2	Jharkhand	1035	715	483	54		
3	Orissa	3597	2530	2451	161		
4	Bihar	1743	1430	101	10		
5	Damodar Valley Corporation	2461	2310	2954	2954		
6	Sikkim	45	45	0			
7	Bhutan	112	112	275	26		
8	ISGS			7384	5854		
	Total ER	15651	12422	18484	1499		
1	WESTERN REGION						
	Chattisgarh	2977	2132	2518	198		
2	Madhya Pradesh Maharashtra	7112	4894	3601	2802		
4	Gujarat	15798	12916	13113	9454		
		10470	8369	10918	7764		
5	Goa Daman and Diu	327	198				
6		260	181				
7	Dadra and Nagar Haveli	612	479	10000	1100		
8	ISGS			13063	1199		
	Total WR	37556	29169	43213	3400		
IV	SOUTHERN REGION						
1	Andhra Pradesh	10292	0/12	7290	656		
		10283	9413		656		
2	Tamil Nadu	10813	9100	6050	540		
3	Karnataka	8503	7453	4779	423		
4	Kerala	3254	2414	2007	79		
5	Pondy	313	241				
6	Goa	84	84	100.10			
7	ISGS	00050	00705	10846	1004		
	Total SR	33250	28705	30972	2704		
v	NORTH-EASTERN REGION						
1	Manipur	110	203	0			
2	Meghalaya	290	53	95	8		
3	Mizoram	75	84	4			
4	Nagaland	120	168	8			
5	Assam	1320	880	190	18		
	Tripura	240	1537	85	8		
6		110	924	0			
6 7	Arunachal Pradesh	110	324	0			
	Arunachal Pradesh ISGS			1013			
7		0 2265	0 3848		57 92		