Issue Date: 16/06/2014

Issue Time: 1500 hrs

Revision No. 17

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 2014 to 30th June 2014	00-24	2500	500	2000	297	1703		
	1st June 2014 to	00-17 23-24	4700	500	4200	4380	0		
	07th June 2014	17-23 00-17	4700		4200		0		
	08th June 2014	23-24	3950	500	3450	4380	0		
WR-NR		17-23 00-17	3950		3450		0		
	09th June 2014	23-24 17-23	3950 3950	500	3450 3450	4380	0		
	10th June 2014 to	00-17	4700		4200	1000	0		
	30th June 2014	23-24 17-23	4700	500	4200	4380	0		
		00-06	1000		800	293	507	[
	1st June 2014 to	06-17'	1000		800	423	377		
NR-ER*	30th June 2014	17-18' 18-23	1100	200	900 900	423 293	477 607		
		23-24	1000		800	293	507		
	1st June 2014 to	00-17 23-24	4000	300	3700	2431	1269		
	6th June 2014	17-23		2.50			1269		
	7th June 2014	00-07' 07-24'	4000 2300	300	3700 2000	2431	1269 0		
	8th June 2014 to 11th June 2014	00-24'	2300	300	2000	2431	0		
	12th June 2014	00-07'	2300	300	2000	2431	0		
		07-24' 00-07'	2300 2300		2000 2000		0		
ER-NR ⁸	13th June 2014	07-24'	2300	300	2000	2431	0		
	14th June 2014	00-07' 07-24'	4000 2300	300	3700 2000	2431	0		
	15th June 2014 to 16th June 2014	00-17 23-24 17-23	4000	300	3700	2431	1269 1269		
	17th June 2014	00-07'	4000 2300	300	3700 2000	2431	1269 1269 0	0 -1700	Revised due to shutdown of 400 kV Kahalgaon - Barh ckt 1
	18th June 2014 to	07-24 00-17 23-24	4000	300	3700	2431	1269	-1700	Kanangaon - Dan ekt 1
	30th June 2014	17-23	4000	500	5700	2431	1269		
	1st June 2014 to	00-24	1800	300	1500	551	949		
W3-ER ^{\$}	09th June 2014 10th June 2014 to 11th June 2014	00-24	1500	300	1200	551	649		
iii Lik	12th June 2014 to 30th June 2014	00-24	1500	300	1200	551	649		
ER-W3	1st June 2014 to 30th June 2014	00-24	1000	300	700	874	0		
WR-SR	1st June 2014 to 20th June 2014	00-24	1000	0	1000	1000	0		
SR-WR *	30th June 2014 1st June 2014 to 20th June 2014	00-24	1000	0	1000	0	1000		
	30th June 2014	00-06					402		
	1st June 2014 to 2nd June 2014	18-24 06-18'	2650	0	2650	2158 2203	492 447		
		00-07	2650		2650	2158	492		
	3rd June 2014	07-18' 18-24'	2350 2350	0	2350 2350	2203 2158	147 192		
	4th June 2014 to 6th June 2014	00-06 18-24	2650	0	2650	2158	492		
		06-18' 00-05	2650		2650	2203 2158	447 492		
	7th June 2014	05-06'	2350	0	2350	2158	192		
ER-SR	8th June 2014 to	06-24' 00-06	2350		2350	2203 2158	147 492		
	9th June 2014 to	18-24 06-18'	2650	0	2650	2138	492		
	10th June 2014 to 15th June 2014	00-06 18-24 06-18'	2650	0	2650	1717 1762	933 888		
		00-06	2650		2650	1717	933		
	16th June 2014	06-07' 07'-18 18'-24'	2350	0	2350	1762 1762 1717	888 588 633		
	17th June 2014 to 30th June 2014	00-06 18-24	2650	0	2650	1717	933		
		06-18' 00-17				1762	888		
SR-ER *	1st June 2014 to 30th June 2014	23-24	1100 1100	0	1100	197	903 903		
	1	17-23	1100		1100		905		

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Revision No. 17

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	645		595	205	390		
	1st June 2014 to	06-17'	645	50	595	210	385		
ER-NER	30th June 2014	17-18	580	50	530 530	210	320		
		18-23 23-24	580 645		595	205 205	325 390		
NER-ER	1st June 2014 to	00-17 23-24	500	100	400	0	400		
TUER-ER	30th June 2014	17-23	450	100	350	Ŭ	350		
	1								
	1st June 2014 to 9th June 2014	00-24	2640	295	2345	2139	206		
S1-S2	10th June 2014 to 13th June 2014	00-24	2640	295	2345	1905	440		
51-52	14th June 2014 to 15th June 2014	00-24	2640	295	2345	2106	239		
	16st June 2014 to 30th June 2014	00-24	2920	295	2625	2215	410		
Import of Punjab	1st June 2014 to 30th June 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st June 2014 to 30th June 2014	00-24	980	0	980	LTA and MTO schee			
	1st June 2014 to	00-17 23-24	9400	200	9200	7050	2150		
	15th June 2014	17-23	9900		9700		2650	1	
	16th June 2014	00-17 23-24	8900	200	8700	7050	1650	-500	Revised due to shutdown of 400kV
		17-23	9400		9200		2150		Raipur-Bhadrawati ckt 2
W3 zone Injection		00-07'	9400		9200		2150	0	
injection	17th June 2014	07'-17	8900	200	8700	7050	1650		Revised due to shutdown of 400kV
		17-23	9400		9200		2150	-500	Raipur-Bhadrawati ckt 3
		23-24	8900		8700		1650		
	18th June 2014 to	00-17 23-24	9400	200	9200	7050	2150		
	30th June 2014	17-23	9900		9700		2650		
* Fifty Percent	(50 %) Counter flow	v benefit o	on account of l	LTA/MTOA t	ransactions in	the reverse direction	n would be cons	idered for a	dvanced transactions (Bilateral &

First Come First Serve).

\$ 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.

 ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam
 S1 comprises of AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry
 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.

Issue Date: 16/06/2014

Issue Time: 1500 hrs

Revision No. 17

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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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 (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400kV Farakka -Malda D/C
W3-ER	(n-1) contingency of 400kV Sterlite-Rourkela S/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	 Commissioning of 765kV Raichur-Sholapur S/C Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO) ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C
ER-NER	(n-1) contingency of 400 kV Balipara – Bongaigaon D/C leading to thermal loading of 220kV BTPS-Agia S/C
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
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingnecy of 220kV Moga(PG)-Moga(PSTCL)
W3 zone	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha
Injection	(800 MW SPS setting on each circuit of 400kV 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									
		00-17							
	1st June 2014 to 6th June 2014	23-24	8700	800	7900	6811	1089		
		17-23	8700		7900		1089		
	7th June 2014	00-07	8700	800	7900	6811	1089		
	/IIIJulie 2014	07-24'	7000	300	6200	0011	0		
		07 24	7000		0200		0		
	8th June 2014	00-24'	6250	800	5450	6811	0		
	9th June 2014	00-24'	6250	800	5450	6811	0		
	10th June 2014 to 11th June 2014	00-24'	7000	800	6200	6811	0		
NR	12th June 2014	00-07'	7000	800	6200	6811	0		
		07-24'	7000		6200	┨───┤	0		
	13th June 2014	00-07'	7000	800	6200	6811	0		
	15ul Julie 2014	07-24'	7000	800	6200	0011	0		
	14th June 2014	00-07'	8700	800	7900	6811	1089		
		07-24'	7000		6200		0		
	15th June 2014 to	00-17 23-24	8700	800	7900	6811	1089		
	16th June 2014	17-23	8700	000	7900	0011	1089		
	17th June 2014			800					Revised due to shutdown of
		00-07'	8700		7900	6811	1089	-1700	400 kV Kahalgaon - Barh ckt
		07-24'	7000		6200		0		1
	18th June 2014 to	00-17 23-24	8700	800	7900	6811	1089		
	30th June 2014	17-23	8700	000	7900	0011	1089		
		00-06	645		595	205	390		
	1st June 2014 to	06-17'	645	50	595	210	385		
NER	30th June 2014	17-18	580	50	530	210	320		
		18-23 23-24	580 645		530 595	205 205	325 390		
WR									
		00-06							
	1st June 2014 to 2nd June 2014	00-06 18-24	3650	0	3650	3158	492		
	2nd June 2014	06-18'	3650		3650	3203	447		
		00-07	3650		3650	3158	492		
	3rd June 2014	07-18'	5550	0	5550	3203	147		
		18-24'	3350		3350	3158	192		
	4th June 2014 to	00-06	2650	0	2650	3158	492		
	6th June 2014	18-24 06-18'	3650	0	3650	3203	447		
		00-15	3650		3650	3158	492		
	7th June 2014	05-06'	3350	0	3350	3158	192		
SR		06-24' 00-06	3350		3350	3203	147		
	8th June 2014 to 9th June 2014	18-24 06-18'	3650	0	3650	3158 3203	492 447		
	10th June 2014 to 15th June 2014	00-06 18-24	3650	0	3650	2717	933		
	-2019 000 2014	06-18'				2762	888		
		00-06 06-07'	3650		3650	2717 2762	933 888		
	16th June 2014	07'-18		0		2762	588		
		18'-24'	3350		3350	2717	633		
	17th June 2014 to	00-06				2717	022		
	30th June 2014 to	18-24	3650	0	3650	2717	933		
		06-18'				2762	888	I	

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	3500		2800	590	2210		
	R * 1st June 2014 to 30th June 2014	06-17'	3500	700	2800	720	2080		
NR*		17-18	3600		2900	720	2180		
		18-23	3600		2900	590	2310		
		23-24	3500		2800	590	2210		
NER	1st June 2014 to 30th June 2014	00-17 23-24	500	100	400	0	400		
	30ui June 2014	17-23	450		350		350		
WR									
SR*	1st June 2014 to 30th June 2014	00-17 23-24	2100	0	2100	197	1903		
	30ui june 2014	17-23	2100		2100		1903		

Limiting Constraints

Export (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli NER Import (n-1) contingency of 400 kV Balipara – Bongaigaon D/C leading to thermal loading of 220kV B' Export (n-1) contingency of 400 kV Balipara – Bongaigaon D/C leading to thermal loading of 220kV B' Export (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa Import 2. Based on the operational experience after the synchronization of SR grid with NEW grid and ovariation of 765kV Raichur-Sholapur S/C SR Import 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. generation gos below 1100 MW, then the ER-SR TTC would be revised downward as constrain	n each circuit of 765 kV Gwalior-Agra) and high loop ver flowing from WR to NR on 765kV Gwalior-Agra Bhinmal-Zerda).
INER Import (n-1) contingency of 400 kV Balipara – Bongagaon D/C leading to thermal loading of 220 kV B Export (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa 1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and o variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2.	y of 220kV Badod-Modak.
 SR Import I. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and over variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO) 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. 	to thermal loading of 220kV BTPS-Agia S/C
SR 2. Based on the operational experience after the synchronization of SR grid with NEW grid and or variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2.	
	w Frequency Oscillations(LFO). generation at Talcher Stage-2. In case Talcher Stage-2
Export (n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C	

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
			Margin revised due to withdrawal/cancellation of 150 MW MTOA from Corporate Power Limited	ER-SR
1	25.03.2014	Whole Month	Re-Routing of transactions on West-East-North Corridor discontinued on account of Inter-Regional Loop flows leading to physical congestion on WR-NR.	WR-NR/ ER-NR
			Margin Revised due to correction in LTA/MTOA figure.	NR-WR
2	04-01-2014	Whole Month	Margin revised due to grant of 150 MW LTA towards SR from NEW grid and grant of 208 MW LTA to TANGEDCO	ER-SR / S1-S2
3	04-04-2014	Whole Month	Margin revised due to grant of 69 MW LTA to Jindal Power Limited Tamnar	W3/ ER-SR
4	04-11-2014	Whole Month	Margin revised due to correction of LTA. 69 MW LTA Quantum inadvertently added in the last revision. Quantum inadvertently added in the last revision	ER-SR
			Margin revised due to incorporation of existing Power Allocation.	
			Margin revised due to Commissioning of Sasan Unit-4.	
			Margin revised due to incorporation of existing Solar Power Allocation to SR, ER, NER constituents between 6 hrs -18 hrs in LTA figures and allocation data avialable on RPCs RTA/REA.	NR-ER
			Margin revised considering the LTA/MTOA allocation avialable in RPCs RTA/REA.	ER-NR/ ER- W3
F	05-01-2014	Whole Month	Margin revised due to incorporation of existing LTA/MTOA allocation avialable in RPCs RTA/REA and Re-routing of existing MTOA granted by CTU.	W3-ER
5	05-01-2014	whole Month	Margin revised due to incorporation of existing Solar Power Allocation to Karnataka between 6 hrs-18 hrs in LTA figures.	ER-SR
			Margin revised considering the LTA/MTOA allocation avialable in RPCs RTA/REA and due to incorporation of existing Solar Power Allocation to Assam.	ER-NER
			Revised due to Allocation of 150 MW TANGEDCO.	S1-S2
			Margin revised due to incorporation of existing LTA/MTOA allocation avialable in RPCs RTA/REA and existing MTOA granted by CTU.	W3 zone Injection
			Revised due to augmentation/ modifications in Punjab control area network.	Import of Punjab

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected	
6	23/5/2014	Whole Month	Refer to explanatory notes regarding the change in TTC representation given in the last page.	ER-SR/ S1-S2	
			Revised due to change in Load Generation Balance and Commissioning of Sasan Unit-1.	WR-NR	
7	31/5/2014	Whole Month	Whole Month Revised due to change in Load Generation Balance		
			Revised due to change in Load Generation Balance.	W3 zone Injection	
8	02-06-2014	03-06-2014	Revised due to shutdown of 400 kV Meramundali-Angul.	ER-SR	
		07-06-2014	Revised due to shutdown of 400 kV GMR-Meramundali and 400 kV Talcher-Meramundali	ER-SR	
9	06-06-2014	07-06-2014 to 11-06-2014	Revised due to shutdown of 400 kV Kahalgaon - Barh ckt 2	ER-NR	
		12-06-2014	Revised due to shutdown of 400 kV Kahalgaon - Barh ckt 1		
10	07-06-2014	08-06-2014	Revised due to forced outage of HVDC Mundra- Mohindergarh Pole 2	WR-NR	
11	08-06-2014	09-06-2014	Revised due to forced outage of HVDC Mundra- Mohindergarh Pole 2	WR-NR	
12	09-06-2014	10/06/2014- 11/06/2014	Revised due to forced outage of 400 kV Raigarh-SEL- Rourkela Ckt 1	W3-ER	
13	10-06-2014	10/06/2014- 30/06/2014	Revised due to outage of Talcher Stage 2 Unit 6	ER-SR / S1-S2	
		12-06-2014	Revised due to extended shutdown of 400 kV Kahalgaon - Barh ckt 2		
14	11-06-2014	13-06-2014	Revised due to shutdown of 400 kV Kahalgaon - Barh ckt 1	ER - NR	
		12/06/2014- 30/06/2014	Revised due to forced outage of 400 kV Raigarh-SEL- Rourkela Ckt 1	W3-ER	
15	12.00.2014	13-06-2014	Revised due to extended shutdown of 400 kV Kahalgaon - Barh ckt 2		
15	12-06-2014	14-06-2014	Revised due to shutdown of 400 kV Kahalgaon - Barh ckt 1	ER-NR	
16	15-06-2014	16-06-2014	Revised due to shutdown of 400kV Bolangir - Angul	ER - SR	
		16-06-2014	Revised due to shutdown of 400kV Raipur-Bhadrawati ckt 2	W3 zone	
17	17 16-06-2014 3		Revised due to shutdown of 400kV Raipur-Bhadrawati ckt 3	Injection	
			Revised due to shutdown of 400 kV Kahalgaon - Barh ckt 1	ER-NR	

ASSUMPTIONS IN BASECASE

Month : June '14

		Loa	ad	Gener	ation
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	4471	4200	1608	1515
2	Haryana	5334	4220	1056	1117
3	Rajasthan	7448	7777	5583	5384
4	Delhi	3961	3666	681	728
5	Uttar Pradesh	10552	10484	5594	5815
6	Jammu & Kashmir	1602	1380	566	564
7	Uttarakhand	1925	1690	843	534
8	Himachal Pradesh	1102	1151	574	623
9	Chandigarh	180	200	0	0
10	ISGS/IPPs			17025	15536
	Total NR	36575	34768	33530	31816
II	EASTERN REGION				
1	West Bengal	7127	6661	5396	4376
2	Jharkhand	696	851	275	350
3	Orissa	3177	2990	2315	2770
4	Bihar	2276	1775	110	110
5	Damodar Valley Corporation	2328	2162	2703	2889
6	Sikkim	59	41	0	0
7	Bhutan	108	108	300	295
8	ISGS/IPPs	410	410	7400	7352
	Total ER	16181	14998	18499	18142
III	WESTERN REGION				
1	Chattisgarh	3118	2566	2217	1790
2	Madhya Pradesh	6272	5975	3092	2909
3	Maharashtra	15542	16342	10886	11197
4	Gujarat	11193	11948	9820	10359
5	Goa	258	360	0	0
6	Daman and Diu	124	94	0	0
7	Dadra and Nagar Haveli	619	600	0	0
8	ISGS/IPPs	1239	1239	18000	18000
	Total WR	38365	39124	44015	44255

IV	SOUTHERN REGION				
1	Andhra Pradesh	10867	9465	6571	5881
2	Tamil Nadu	11286	10266	7776	7002
3	Karnataka	8112	7123	6100	4619
4	Kerala	3214	2389	1781	863
5	Pondy	285	249	0	0
6	Goa	83	83	0	0
7	ISGS/IPPs			9937	9560
	Total SR	33847	29575	32165	27925
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	78	58	0	0
2	Assam	893	723	270	180
3	Manipur	84	48	0	0
4	Meghalaya	230	168	115	41
5	Mizoram	60	38	4	4
6	Nagaland	84	57	12	8
7	Tripura	158	115	95	99
8	ISGS/IPPs	·		561	274
	Total NER	1587	1207	1057	606
		400555	440070	100000	1007.11
	Total All India	126555	119672	129266	122744