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		
WR-NR	1st June 2014 to	00-17 23-24	4700	500	4200	4380	0		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	30th June 2014	17-23	4700		4200		0		
		00-06	1000		800	293	507		
	1st June 2014 to	06-17'	1000		800	423	377		
NR-ER*	30th June 2014	17-18'	1100	200	900	423	477		
		18-23 23-24	1000		900	293 293	607 507		
	1 . 1 . 2014 .	00-17	1000		800	293			
ER-NR ^{\$}	1st June 2014 to 30th June 2014	23-24	4000	300	3700	2431	1269		
		17-23					1269		
W3-ER ^{\$}	1st June 2014 to 30th June 2014	00-24	1800	300	1500	551	949		
ER-W3	1st June 2014 to 30th June 2014	00-24	1000	300	700	874	0		
WR-SR	1st June 2014 to 30th June 2014	00-24	1000	0	1000	1000	0		
SR-WR*	1st June 2014 to 30th June 2014	00-24	1000	0	1000	0	1000		
	1-4 1 2014 4	00-06				2150	402		
	1st June 2014 to 2nd June 2014	18-24	2650	0	2650	2158	492		
		06-18' 00-07	2650		2650	2203 2158	447 492		D
ER-SR	3rd June 2014	07-18'	2350	0	2350	2203	147	-300	Revised due to shutdown of 400 kV Meramundali-Angul.
		18-24' 00-06	2350		2350	2158	192		
	4th June 2014 to 30th June 2014	18-24	2650	0	2650	2158	492		
		06-18' 00-17				2203	447		
SR-ER *	1st June 2014 to 30th June 2014	23-24	1100	0	1100	197	903		
	30th Julie 2014	17-23	1100		1100		903		
		00-06	645		595	205	390		
ED MED	1st June 2014 to	06-17'	645	50	595	210	385		
ER-NER	30th June 2014	17-18 18-23	580 580	50	530 530	210 205	320 325		
		23-24	645		595	205	390		
MED ED	1st June 2014 to	00-17	500	100	400	0	400		
NER-ER	30th June 2014	23-24 17-23	450	100	350	U	350		
	1-t I 2014 t								
	1st June 2014 to 13th June 2014	00-24	2640	295	2345	2139	206		
S1-S2	14th June 2014 to 15th June 2014	00-24	2640	295	2345	2340	5		
	16st June 2014 to 30th June 2014	00-24	2920	295	2625	2449	176		
Import of	1st June 2014 to	00-24	5700	300	5400	3790	1610		
Punjab Import TTC for DD & DNH	30th June 2014 1st June 2014 to 30th June 2014	00-24	980	0	980	LTA and MTO			
W3 zone	1st June 2014 to	00-17	9400	200	9200	7050	2150		
Injection	30th June 2014	23-24 17-23	9900		9700		2650		
4. F21.0 B	(50 o/) G . G			T. T. A. (T. C.)					advanced transactions (Bilateral &

^{*} 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: 02/06/2014 Issue Time: 1400 hrs Revision No. 8

Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Available for Short Term Open Access	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) 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 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

NR-WR (n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-M High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 k' and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing: 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV 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 1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid an variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LF 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revisionstraints within ER would emerge. SR-WR Bhadrawati HVDC B/B link capacity	V Gwalior-Agra) from WR to NR on
wr-Nr and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing 765kV Gwalior-Agra D/C and from Nr to Wr on 400kV Kankroli-Zerda and 400kV 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 1. Commissioning of 765kV Raighur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid an variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LF Er-Sr TTC has been declared assuming more than 1100 MW generation at Talcher Talcher Stage-2 generation goes below 1100 MW, then the Er-Sr TTC would be revisionstraints within Er would emerge.	from WR to NR on
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 1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid an variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LF 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revisionstraints within ER would emerge.	
W3-ER (n-1) contingency of 400kV Sterlite-Rourkela S/C ER-W3 (n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela 1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid an variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LF Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revisionstraints within ER would emerge.	
ER-W3 (n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela 1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid an variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LF 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revisionstraints within ER would emerge.	
1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid an variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LF 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revisconstraints within ER would emerge.	
2. Based on the operational experience after the synchronization of SR grid with NEW grid an variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LF 3. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revisionstraints within ER would emerge.	
SR-WR Bhadrawati HVDC B/B link capacity	Stage-2. In case
ser the service of th	
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 S/C	220kV BTPS-Agia
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 40 Injection Wardha (800 MW SPS setting on each circuit of 400kV Raipur-Wardha) *Primary constraints	0kV Raipur-

^{*}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									
NR	1st June 2014 to 30th June 2014	00-17 23-24	8700	800	7900	6811	1089		
		17-23	8700		7900		1089		
	1st June 2014 to 30th June 2014	00-06	645	50	595	205	390		
		06-17'	645		595	210	385		
NER		17-18	580		530	210	320		
		18-23	580		530	205	325		
		23-24	645		595	205	390		
WR									
VV IX									
	1st June 2014 to 2nd June 2014	00-06 18-24	3650	0	3650	3158	492		
	Ziid Julie 2014	06-18'	3650		3650	3203	447		
		00-07	3650		3650	3158	492		Revised due to shutdown
GP.	2 11 2014	07-18'	3350	0	3350	3203	147		of 400 kV Meramundali-
SR	3rd June 2014	18-24'	3350	0	3350	3158	192	-300	Angul.
	4th June 2014 to 30th June 2014	00-06 18-24	3650	0	3650	3158	492		
	30ui Julie 2014	06-18'				3203	447		

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

		(n-1) contingency of one circuit of 400kV Farakka –Malda D/C
NR	Import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high 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).
	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 BTPS-Agia S/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	Import	 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.
	Export	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C

^{*}Primary constraints

Revision	Date of	Period of	Reason for Revision	Corridor
No	Revision	Revision	Reason for Revision	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	Margin revised due to grant of 69 MW LTA to Jindal	W3/
		Month	Power Limited Tamnar	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.	NR-WR
			Margin revised due to Commissioning of Sasan Unit-4.	WR-NR
			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.	
			Margin revised considering the LTA/MTOA allocation avialable in RPCs RTA/REA.	ER-NR/ ER- W3
5		Whole	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	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
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

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
			Revised due to change in Load Generation Balance and Commissioning of Sasan Unit-1.	WR-NR
7	31/5/2014	Whole Month	Revised due to change in Load Generation Balance	ER-NR/ ER- NER
			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

ASSUMPTIONS IN BASECASE

Month: June '14

			I	Month Sune 14			
		Loa	ad	Generation			
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)		
ı	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
٧	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
	Total All In Un	100555	1105-2	400000	1005.
	Total All India	126555	119672	129266	122744