Issue Date: 08/05/2015 Issue Time: 1130 hrs Revision No. 15

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 May 2015 to 31st May 2015	00-24	2500	500	2000	706	1294		
	1st May 2015	00-07	5100	500	4600	5157	0		
		07-24' 00-0730	4850 4850		4350 4350		0		
		0730-							
	2nd May 2015	1030	4400	500	3900	5157	0		
		1030-24	4850		4350		0		
	3rd May 2015	00-17 23-24	4850	500	4350	5157	0		
		17-23	4850		4350		0		
		00-2115	4850		4350	5157	0		
	4th May 2015	2115- 2230	3750	500	3250	5157	0		
		2230-24	5100		4600	5157	0		
WR-NR*	5th May 2015 to 6th May 2015	00-17 23-24	5100	500	4600	5157	0		
	Our Way 2013	17-23	5100		4600		0		
	7th May 2015	00-07	5100	500	4600	5157	0		
		0724 00-07	4100 5100		3600 4600		0		Revised due to cancellation of
	8th May 2015	0712	4100	500		5157	0		765kV Agra Bus-1 shutdown and
	our way 2013	1224	4400	300	3600	3137		200	shutdown of Rihand-Dadri HVDC
		00-17	4400		3900		0	300	Pole-2.
	9th May 2015 to	23-24	4400	500	3900	5157	0	-700	Revised due to shutdown of Rihand-
	10th May 2015	17-23	4400		3900		0		Dadri HVDC Pole-2.
	11th May 2015 to	00-17 23-24	5100	500	4600	5157	0		
	31st May 2015	17-23	5100	300	4600	3137	0		
					1000	202	1505		
NR-ER*	1st May 2015 to	00-06 06-18'	2000 2000	200	1800 1800	293 358	1507 1442	-	
THE ER	31st May 2015	18-24	2000	200	1800	293	1507		
	1st May 2015 to	00-17	3400		3100		669		
ER-NR*	31st May 2015	23-24 17-23	3400	300	3100	2431	669		
		17-23	3400		3100		009		
W3-ER ^{\$}	1st May 2015 to 31st May 2015	00-24					s being specified. allowed via W3-El	R-NR.	
ER-W3	1st May 2015 to 31st May 2015	00-24	1000	300	700	874	0		
		05-22	2100		1350		0		
	1st May 2015	00-05	2500	750	1750	1350	400		
		22-24 05-22	2300		1550		200		
	2nd May 2015 to	00-05		750		1350			
	6th May 2015	22-24	2700		1950		600		
WR-SR	7th May 2015 (01	00-05 0507	2700		1950		600 200		
	7th May 2015 to 9th May 2015	0507	2300 1900	750	1550 1150	1350	0		
		22-24	2300		1550		200		
	10th May 2015 to	05-22	2300		1550		200		
	31st May 2015	00-05 22-24	2700	750	1950	1350	600		
SR-WR *	1st May 2015 to 31st May 2015	00-24				No limit i	s being Specified.		

Issue Date: 08/05/2015 Issue Time: 1130 hrs Revision No. 15

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-SR	1st May 2015 to 31st May 2015	00-06 18-24	2650	0	2650	2385	265			
	313t Way 2013	06-18'				2450	200			
SR-ER *	1st May 2015 to 31st May 2015	00-24				No limit i	s being Specified.			
ER-NER	1st May 2015 to	00-17 23-24	1170	40	1130	210	920			
	31st May 2015	17-23	1150		1110	-10	900			
NER-ER	1st May 2015 to 31st May 2015	00-24		No limit is being Specified.						
	1st May 2015	00-24	3220	320	2900	2583	317			
	2nd May 2015	00-12	3220	320	2900	2583	317			
	•	12'-24	3220	320	2900	2583	317			
	3rd May 2015	00-24	3220	320	2900	2583	317			
	4th May 2015	00-21:45	2920	320	2600	2474	126			
		21:45-24	3265		2945	2474	471			
S1-S2	5th May 2015	00-24	3265	320	2945	2474	471			
	6th May 2015	00-19	3265	320	2945	2474	471			
		19-24	3265		2945	2474	471			
	7th May 2015	00-08	3265	320	2945	2474	471			
	•	12-24'	2920	320	2600	2474	126			
	8th May 2015 to 31st May 2015	00-24	2920	320	2600	2474	126			
Import of Punjab	1st May 2015 to 31st May 2015	00-24	5700	300	5400	3790	1610			
Import TTC for DD & DNH	1st May 2015 to 31st May 2015	00-24	1200	0	1200		LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st May 2015 to	00-17 23- 24	9400	200	9200	7094	2106			
* Fifty Dargant	31st May 2015	17-23	9900	T T A /MTO A	9700	the reverse directi	2606		vanced transactions (Pilateral &	

^{*} 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).

- \$ 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
- $f)\;BALCO,\;g)\;Sterlite\;(\#1,3,4),\;h)\;NSPCL,\;i)\;Korba,\;j)\;Sipat,\;k)\;KSK\;Mahanadi,\;L)DB\;Power,\;m)\;KWPCL,\;n)Vandana\;Vidyut\;Power,\;m$
- # 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 willl be revised to normal values if the shutdown is not being availed in real time.

Issue Date: 08/05/2015 Issue Time: 1130 hrs Revision No. 15

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 400kV Singrauli-Anpara & 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 Saranath-Pusauli
ER-NR	(n-1) contingnecy of Kahalgaon-Lakhisarai S/C
ER-W3	 n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
WR-SR & ER-SR	n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 3. 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.
ER-NER	(n-1) contingnecy of Kahalgaon-Lakhisarai S/C
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
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C
Import of DD & DNH	(n-1) contingency of 400/220KV 315MVA ICT at VAPI
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingnecy of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	 n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)

^{*}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									
		00-07	8500		7700		112		
	1st May 2015	07-24'	8250	800	7450	7588	0		
		00-0730	8250		7450		0		
	2nd May 2015	0730- 1030	7800	800	7000	7588	0		
		1030-24	8250		7450		0		
	3rd May 2015	00-17 23-24	8250	800	7450	7588	0		
		17-23	8250		7450		0		
	4th May 2015	00-21:15	8250		7450	7588	0		
		21:15- 22:30	7150	800	6350	7588	0		
		22:30-24	8500		7700	7588	0		
NR*	5th May 2015 to 6th May 2015	00-17 23-24	8500	800	7700	7588	112		
	our way 2013	17-23	8500		7700		112		
	7th May 2015	00-07 0724	8500 7500	800	7700 6700	7588	112 0		
		00-07	8500		7700		112		Revised due to cancellation of 765kV Agra Bus-1
	8th May 2015	0712	7500	800	6700	7588	0		shutdown and shutdown of
		1224	7800		7000		0	300	Rihand-Dadri HVDC Pole-2.
	9th May 2015 to	00-17 23-24	7800	800	7000	7588	-588	-700	Revised due to shutdown of Rihand-Dadri HVDC Pole-2.
	10th May 2015	17-23	7800		7000		-588		Kilialiu-Dauli fivoc Pole-2.
	11th May 2015 to 31st May 2015	00-17 23-24	8500	800	7700	7588	112		
	315t iviay 2013	17-23	8500		7700		112		
NER	1st May 2015 to 31st May 2015	00-17 23-24	1170	40	1130	210	920		
	518t Wiay 2015	17-23	1150		1110		900		
WR									

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
		00-05	5150		4400	3935	465		
		05-06'	4750		4000	3935	65		
	1st May 2015	06-18'	4750	750	4000	4000	0		
		18-22	4750		4000	3935	65		
		22-24	5150	Ī	4400	3935	465		
	2nd May 2015 to 6th May 2015	00-05	5350		4600	3935	665		
		05-06'	4950	750	4200	3935	265		
		06-18'	4950		4200	4000	200		
		18-22	4950		4200	3935	265		
		22-24	5350		4600	3935	665		
SR		00-05	5350		4600	3935	665		
		05-06'	4950		4200	3935	265		
	7th May 2015 to	06-07'	4950	750	4200	4000	200		
	9th May 2015	07-18'	4550	750	3800	4000	0		
		18-22	4550		3800	3935	0		
		22-24	4950		4200	3935	265		
		00-05	5350		4600	3935	665		
	10th May 2015 to	05-06'	4950		4200	3935	265		
	31st May 2015	06-18'	4950	750	4200	4000	200		
	318t Way 2013	18-22	4950		4200	3935	265		
		22-24	5350		4600	3935	665		

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	
MD*	1st May 2015 to 31st May 2015	00-06	4500	700	3800	999	2801			
NR*		06-18' 18-24	4500	700	3800 3800	1064 999	2736 2801			
NER	1st May 2015 to 31st May 2015	00-17 23-24 17-23		No limit is being Specified.						
WR										
SR *	1st May 2015 to 31st May 2015	00-24		No limit is being Specified.						

^{*} 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

	g Constraints	
		(n-1) contingnecy of Kahalgaon-Lakhisarai S/C
	Import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop
NR	Import	flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra
NK -		D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	E	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(n-1) contingnecy of Kahalgaon-Lakhisarai S/C
NEK	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
		1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.
		2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) D/C.
SR	Import	3. 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.

^{*}Primary constraints

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	12-Feb-15	Whole Month	Margin revised due to cancellation of LTA/MTOA	NR-WR/ ER- W3
2	2-Mar-15	Whole Month	STOA Margins revised due to grant of MTOA from Chattisgarh to KSEB by CTU. Revised due to commissioning of Vallur Unit-3	W3-ER/ W3 Zone S1-S2
3	31-Mar-15	Whole Month	Revised considering the commissioning of Sasan Unit-6 and reviewed HVDC set points. Revised considering the commissioning of 765kV Pune-	WR-NR
			Sholapur S/C.	WR-SR
4	21-Apr-15	Whole Month	Revised considering reviwed thermal ratings of the lines in ER and expected flows on ER-NR corridor	ER-NR
5	27-Apr-15	Whole Month	Revised due to LGBR changes given in 106th OCC meeting.	S1-S2
		Whole Month	Revised due to shutdown of 765kV Pune-Sholapur S/C and considering the present Maharashtra Demand pattern (1st May) & Revised considering the present Maharashtra Demand pattern (2nd-31st).	WR-SR
6	30-Apr-15	01-05-2015 to 03-05-2015	Revised due to shutdown of HVDC Vindhyachal BTB Block- 2.	WR-NR
			on account of addition of new elements in NER Grid and	ER-NER/ NER-
		Whole Month	change in load-generation balance.	ER
		01-05-15 to 02-05-15	Due to Extension of Vallur Unit -3 Outage	S1-S2
7	2-May-15	5/2/2015	Revised due to Emergency shutdown of Rihand-Dadri HVDC Pole-1.	WR-NR
8	2-May-15	02-05-15 to 03-05-15	Revised due to Extension of Vallur Unit -3 Outage	S1-S2
9	3-May-15	5/4/2015	Revised due to extension of HVDC Vindhyachal BTB Block-2 shutdown.	WR-NR
	4-May-15	5/4/2015	Revised due to trippng of Mundra-Mahendragarh HVDC pole-2	WR-NR
10	T WIGY-13	5/4/2015 to 5/6/2015	Revised due to NCTPS stage 2 Unit-1 Outage	S1-S2
11	4-May-15	5/4/2015	Due to revival of Mundra-mahendragarh pole 2 and Vindhyachal Block 2	WR-NR
43	C.N. 45	7/5/2015 to 9/5/2015	Revised due to shutdown of 400kV Chandrapur- Ramagundam Ckt-1 (7th-8th) & Ckt-2 (9th).	WR-SR
12	6-May-15	7/5/2015 to 8/5/2015	Revised due to shutdown of 765kV Bus-1 at Agra Substation.	WR-NR

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
13	6-May-15	6/5/2015 to 7/5/2015	Revised due to Extension of NCTPS Stage 2 Unit-1 Outage.	S1-S2
14	7-May-15	5/7/2015	Revised due to revival of NCTPS Stage 2 Unit-1.	S1-S2
15	8-May-15	8/5/2015	Revised due to cancellation of 765kV Agra Bus-1 shutdown and due shutdown of Rihand-Dadri HVDC Pole-2.	WR-NR
		9/5/2015 to 10/5/2015	Revised due shutdown of Rihand-Dadri HVDC Pole-2.	

ASSUMPTIONS IN BASECASE

Month: May '15

	Т			Month: May 15			
		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	7577	6617	3463	3477		
2	Haryana	5856	5210	2202	2203		
3	Rajasthan	7738	7467	4717	4717		
4	Delhi	5200	4674	1323	1323		
5	Uttar Pradesh	12604	12834	6533	6524		
6	Jammu & Kashmir	2166	1404	443	441		
7	Uttarakhand	1638	1285	830	496		
8	Himachal Pradesh	1383	1127	704	624		
9	Chandigarh	292	194	0	0		
10	ISGS/IPPs			18480	15160		
	Total NR	44454	40812	38695	34965		
II	EASTERN REGION						
1	West Bengal	7550	6800	5200	3700		
2	Jharkhand	1070	900	470	380		
3	Orissa	3950	3200	3400	2500		
4	Bihar	2600	2140	180	0		
5	Damodar Valley Corporation	2675	2400	3800	3400		
6	Sikkim	85	50	-	-		
7	Bhutan			250	140		
8	ISGS/IPPs			10005	8325		
	Total ER	17930	15490	23305	18445		
III	WESTERN REGION						
1	Chattisgarh	3336	2801	1606	1313		
2	Madhya Pradesh	7271	6314	3649	3011		
3	Maharashtra	19250	17030	15092	12163		
4	Gujarat	13471	1238	10322	8765		
5	Goa	438	347				
6	Daman and Diu	288	264				
7	Dadra and Nagar Haveli	687	665				
8	ISGS/IPPs	1058	1058	22774	22774		
	Total WR	45799	29717	53443	48026		

ASSUMPTIONS IN BASECASE

Month: May '15

		Loa	ad	Gener	ation
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Telangana	5580	5568	2354	2173
2	Andhra Pradesh	5593	5592	5077	4550
3	Tamil Nadu	12051	10398	7068	6424
4	Karnataka	8046	7046	7080	5576
5	Kerala	3328	2336	1939	770
6	Pondy	374	294		
7	Goa	89	89		
8	ISGS/IPPs			9180	9180
	Total SR	35061	31323	32698	28673
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	86	53	0	0
2	Assam	753	640	215	200
3	Manipur	83	53	0	0
4	Meghalaya	296	211	140	92
5	Mizoram	58	40	4	3
6	Nagaland	76	63	16	8
7	Tripura	244	164	110	110
8	ISGS/IPPs			990	738
	Total NER	1596	1224	1475	1151
	Total All India	144840	118566	149616	131260