

**National Load Despatch Centre
Total Transfer Capability for May 2014**

Issue Date: 10/05/2014

Issue Time: 2100 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 May 2014 to 31st May 2014	00-24	2500	500	2000	297	1703		
WR-NR	1st May 2014 to 3rd May 2014	00-17	4200	500	3700	3992	0		
		23-24							
	4th May 2014	17-23	4200	500	3700	3992	0		
		00-09							
	5th May 2014	09'-24	3800	500	3300	3992	0		
		00-05							
	6th May 2014	05'-24	4200	500	3700	3992	0		
		00-05							
	7th May 2014	05'-24	4200	500	3700	3992	0		
		00-05							
	8th May 2014	05'-24	3800	500	3300	3992	0		
		00-05							
	9th May 2014	05'-24	4200	500	3700	3992	0		
		00-05							
10th May 2014	05'-24'	3900	500	3400	3992	0			
	00-05								
11th May 2014	05'-24'	3900	500	3400	3992	0			
	00-05								
12th May 2014 to 31st May 2014	00-17	4200	500	3700	3992	0			
	23-24								
		17-23							
NR-ER*	1st August 2014 to 31st August 2014	00-06	1000	200	800	293	507		
		06-17'			800	423	377		
		17-18'	1100		900	423	477		
		18-23			900	293	607		
		23-24	1000		800	293	507		
ER-NR^s	1st May 2014	00-17	3800	300	3500	2431	1069		
		23-24					1069		
	2nd May 2014	00-07	3800	300	3500	2431	1069		
		07'-24	3500		3200		769		
	3rd May 2014 to 31st May 2014	00-17	3800	300	3500	2431	1069		
		23-24					1069		
W3-ER	1st May 2014	00-07	1800	300	1500	551	949		
		07'-24	1500	300	1200	551	649		
	2nd May 2014	00-07	1800	300	1500	551	949		
		07'-24	1800	300	1500	551	949		

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W3-ER	3rd May 2014 to 4th May 2014	00-07	1800	300	1500	551	949		
		07-24	1500	300	1200	551	649		
	5th May 2014 to 7th May 2014	00-24	1800	300	1500	551	949		
	8th May 2014	00-08	1800	300	1500	551	949		
		08-24'	1400		1100		549		
	9th May 2014 to 10th May 2014	00-24	1800	300	1500	551	949		
	11th May 2014	00-08	1800	300	1500	551	949		
08-24'		1400	1100		549		-400	Revised due to shutdown of 400 kV Rourkela-Sterlite Ckt 2 and 400 kV Rourkela-Jharsuguda Ckt 2	
12th May 2014 to 10th May 2014	00-24	1800	300	1500	551	949			
ER-W3	1st May 2014 to 31st May 2014	00-24	1000	300	700	874	0		
WR-SR	1st May 2014 to 31st May 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st May 2014 to 31st May 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st May 2014 to 2nd May 2014	00-06	750	0	750	593	157		
		18-24				638	112		
	3rd May 2014	00-06	750	0	750	593	157		
		18-24				450	638	0	
		06-17'				750	638	112	
	4th May 2014 to 05th May 2014	00-06	750	0	750	593	157		
		18-24				638	112		
	06th May 2014	00-06	750	0	750	593	157		
		18-24				638	112		
		06-07'				750	638	112	
		07-18'				450	638	0	
	07th May 2014 to 31st May 2014	18-24	450		450	593	0		
		00-06	750	0	750	593	157		
18-24		638				112			
SR-ER *	1st May 2014 to 31st May 2014	00-17	1100	0	1100	197	903		
		23-24				903			
		17-23				1100			
ER-NER²	1st May 2014 to 7th May 2014	00-06	720	50	670	205	465		
		23-24				670	210	460	
		06-17'				640	210	380	
		17-18				640	205	385	
	8th May 2014 to 9th May 2014	00-06	720	50	670	205	465		
		23-24				670	210	460	
		06-10'				570	210	310	
		10-17'				640	210	380	
	10th May 2014 to 31st May 2014	17-18	640		640	590	210	380	
		18-23	640		640	590	205	385	
		00-06	720	50	670	205	465		
		23-24				670	210	460	
06-17'	640	210				380			
17-18	640	205				385			

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NER-ER	1st May 2014 to 7th May 2014	00-17	530	100	430	0	430		
		23-24			430				
	8th May 2014 to 9th May 2014	17-23	550	100	450	0	450		
		00-10	530		430		430		
		23-24			430		430		
	10th May 2014 to 31st May 2014	10-17'	250	100	150	0	150		
17-23		550	450		450				
00-17		530	430		430				
		23-24		100	430	0	430		
		17-23	550		450		450		
S1-S2	1st May 2014 to 05th May 2014	00-24	5650	400	5250	5150	100		
	06th May 2014 to 07th May 2014	00-07	5650	400	5250	5150	100		
		07-24'	5100	400	4700	5150	0		
	08th May 2014 to 09th May 2014	00-24	5650	400	5250	5150	100		
	10th May 2014	00-0730	5650	400	5250	5150	100		
		19-24			5250		100		
	11th May 2014	0730-19	5150	400	4750	5150	0		
		00-06	5650		5250		100		
12th May 2014	19-24	5100	400	4700	5150	0			
	00-09	5650		5250		100			
13th May 2014 to 31st May 2014	09-14'	5100	400	4700	5150	0			
	00-24	5650		5250		100			
Import of Punjab	1st May 2014 to 10th May 2014	00-24	5600	300	5300	3800	1500		
	11th May 2014 to 31st May 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st May 2014 to 31st May 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st May 2014	00-07	9000	200	8800	6901	1899		
		07-17	8500		8300		1399		
		23-24	9000		8800		1899		
	2nd May 2014	17-23	9500	200	9300	6901	2399		
		00-17	9000		8800		1899		
	3rd May 2014	00-08	9000	200	8800	6901	1899		
		08'-17	8600		8400		1499		
		23-24	9100		8900		1999		
	4th May 2014	17-23	9000	200	8800	6901	1899		
		00-07'	9000		8800		1899		
		07'-17	8500		8300		1399		
	5th May 2014 to 31st May 2014	23-24	9000	200	8800	6901	1899		
		17-23	9500		9300		2399		

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* 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) 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) KWPCCL, n)Vandana Vidyt

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 commissioned the LTA/MTOA utilized would be 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.

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.

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 high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda.
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 & ER-SR	1. Commissioning of 765kV Raichur-Sholapur S/C 2. 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) 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	
ER-NER	(n-1) contingency of 400 kV Kahalgaon-Biharshariff (during Off-Peak Hours) (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C (during Peak Hours)
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 Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	(n-1) contingency of 400 kV Raipur-Wardha-Parli Section

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
SR	1st May 2014 to 2nd May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-18'	1750		1750	1638	112		
	3rd May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-17'	1450		1450	1638	0		
		17-18	1750		1750	1638	112		
	4th May 2014 to 5th May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-18'	1750		1750	1638	112		
	6th May 2014	00-06	1750	0	1750	1593	157		
		06-07'	1750		1750	1638	112		
		07-18'	1450		1450	1638	0		
		18-24'	1450		1450	1593	0		
	7th May 2014 to 31st May 2014	00-06 18-24	1750	0	1750	1593	157		
		06-18'	1750		1750	1638	112		

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.

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	
NR*	1st May 2014 to 31st May 2014	00-06	3500	700	2800	590	2210			
		06-17'	3500		2800	720	2080			
		17-18	3600		2900	720	2180			
		18-23	3600		2900	590	2310			
		23-24	3500		2800	590	2210			
NER	1st May 2014 to 7th May 2014	00-17	530	100	430	0	430			
		23-24			450		450			
		17-23			550					
	8th May 2014 to 9th May 2014	00-10	530	100	430	0	430			
		23-24			150		150			
		10-17'			250		450			
	17-23	550								
		10th May 2014 to 31st May 2014	00-17	530	100	430	0	430		
			23-24			450		450		
17-23	550									
WR										
SR*	1st May 2014 to 31st May 2014	00-17	2100	0	2100	197	1903			
		23-24			2100		1903			
		17-23			2100					

* 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

NR	Import	(n-1) contingency of 400 kV Kahalgaon-Biharshariff 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.
	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 Kahalgaon-Biharshariff (during Off-Peak hours) and (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C (during Peak Hours)
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	Import	1. Commissioning of 765kV Raichur-Sholapur S/C 2. 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). 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
	Export	

*Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	19/02/2014	Whole Month	Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2	ER-NR/ WR-NR
			Revised considering operational experience and margins on HVDC	ER-SR/ WR SR
			Review of flow pattern due to network topology change and Load Generation Balance.	W3 Zone Injection
2	05/03/2014	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
3	13/03/2014	Whole Month	Margin revised due to withdrawal/cancellation of 150MW MTOA from Corporate Power Limited	ER-SR
4	25/03/2014	Whole Month	Margin revised due to correction in LTA/MTOA figure.	NR-WR
5	29/03/2014	Whole Month	Margin revised due to grant of 150 MW LTA towards SR from NEW grid	ER-SR
6	29/04/2014	Whole Month	Margin revised due to Non-Commissioning of Kudankulam U-1, Vallur U-3 unit and NLC-2 EXP units and Allocation of 150 MW to TANGEDCO.	S1-S2
			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 available on RPCs RTA/REA.	NR-ER/ ER- SR
			Margin revised due to Commissioning of Sasan Unit-4.	WR-NR
			Margin revised considering the LTA/MTOA allocation available in RPCs RTA/REA and due to incorporation of existing Solar Power Allocation to Assam.	ER-NER
			Margin revised considering the LTA/MTOA allocation available in RPCs RTA/REA.	NR-WR/ ER-NR
			Margin revised considering the LTA/MTOA allocation available on RPCs RTA/REA and Re-routing of existing MTOA granted by CTU.	W3-ER
7	30/04/2014	01/05/2014	Revised due to shutdown of 400kV Raipur-Wardha Circuit-2.	W3 Zone Injection
		01/05/2014- 02/05/2014	Revised due to shutdown of 400 kV Rourkela-Sundergarh-Raigarh Ckt-II	W3-ER
8	01/05/2014	02/05/2014	Revised due to shutdown of 400 kV Biharsharif-Banka Ckt-II	ER-NR
			Revised due to 400 kV Rourkela-Sundergarh-Raigarh Ckt-II shutdown not being availed	W3-ER
9	02/05/2014	03/05/2014	Revised due to shutdown of 400 kV Raipur-Bhadrawati-II	W3 injection
			Revised due to shutdown of 400 kV JITPL-Anugul-Meramundli	ER-SR
		03/05/2014 to 04/05/2014	Revised due to shutdown of 400 kV Rourkela-Sundergarh-Raigarh Ckt-II	W3-ER

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
10	03/05/2014	04/05/2014	Revised due to shutdown of 400 kV Raipur-Wardha-I	W3 injection
			Revised due to shutdown of 765 kV Bus-I of 765/400 kV Agra Substation	WR-NR
11	04/05/2014	05/05/2014	Revised due to shutdown of 400 kV Bhiwani (PG) - Mohindergarh ckt-1	WR-NR
		06/05/2014	Revised due to shutdown of 400 kV Bhiwani (PG) - Mohindergarh ckt-2	
		07/05/2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh ckt-1	
		08/05/2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh ckt-2	
12	05/05/2014	05/05/2014 to 09/05/2014	Revised due to rescheduling of 400 kV Bhiwani (PG) - Mohindergarh ckt-1, ckt-2 and 400 kV Dhanonda - Mohindergarh ckt-1 and ckt-2 shutdown	WR-NR
		06/05/2014 to 07/05/2014	Revised due to shutdown of 400 kV Hosur-Salem Ckt 2	S1-S2
13	05/05/2014	06/05/2014	Revised due to emergency shutdown of 400 kV JITPL-Anugul and 400 kV JITPL-Bolangir	ER-SR
14	07/05/2014	08/05/2014	Revised due to re-scheduling of 400 kV Dhanonda - Mohindergarh-I shutdown	WR-NR
		09/05/2014	Revised due to re-scheduling of 400 kV Dhanonda - Mohindergarh-II shutdown	WR-NR
		08/05/2014 - 09/05/2014	Revised due to shut down of 220 kV Sarusajai- Samaguri Ckt- I & II	ER-NER/ NER-ER
		08/05/2014	Revised due to shutdown of 400kV Rourkela-SEL-I & 400kV Rourkela-Jharsuguda-I	W3-ER
15	09/05/2014	10/05/2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh-I.	WR-NR
		11/05/2014	Revised due to shutdown of 400 kV Dhanonda - Mohindergarh-I.	WR-NR
		10/05/2014	Revised due to shutdown of 400 kV SVCHATHRAM-PONDY S/C.	S1-S2
16	10/05/2014	11/05/2014	Revised due to shutdown of 400kV Hosur-Salem-1	S1-S2
		12/05/2014	Revised due to shutdown of 400kV Hosur-Salem-2	S1-S2
		11/05/2014 - 31/05/2014	Revised due to augmentation/modifications in Punjab control area network	Import of Punjab
17	10/05/2014	11/05/2014	Revised due to shutdown of 400 kV Rourkela-Sterlite Ckt 2 and 400 kV Rourkela-Jharsuguda Ckt 2	W3-ER