

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

Issue Date: 27/04/2014

Issue Time: 1300 hrs

Revision No. 20

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 April 2014 to 30th April 2014	00-24	2500	500	2000	361	1639		
WR-NR <sup>1</sup>	1st April 2014 to 25th April 2014	00-17	4200	500	3700	3656	44		
		23-24	4200		3700		44		
	26th April 2014	00-09	4200	500	3700	3656	44		
		09-11'	3800		3700		0		
		11-24'	4200		3700		44		
	27th April 2014 to 30th April 2014	00-17	4200	500	3700	3656	44		
23-24		4200	3700		44				
NR-ER*	1st April 2014 to 30th April 2014	00-17	1000	200	800	200	600		
		23-24	1100		900		700		
ER-NR <sup>5</sup>	1st April 2014 to 07th April 2014	00-17	3300	300	3000	2789	211		
		23-24					211		
	08th April 2014 to 10th April 2014	00-17	3800	300	3500	2789	711		
		23-24					711		
	11th April 2014 to 20th April 2014	00-17	3800	300	3500	2789	711		
		23-24					711		
	21st April 2014 to 22nd April 2014	00-06	3800	300	3500	2789	711		
		19-24					2600	2300	0
23rd April 2014 to 24th April 2014	00-17	3800	300	3500	2789	711			
	23-24					711			
25th April 2014 to 30th April 2014	00-17	3800	300	3500	2789	711			
	23-24					711			
W3-ER	1st April 2014 to 11th April 2014	00-24	1800	300	1500	0	1500		
	12th April 2014	00-07	1800	300	1500	0	1500		
		07-24'	1600	300	1300	0	1300		
	13th April 2014	00-24	1600	300	1300	0	1300		
	14th April 2014	00-07	1800	300	1500	0	1500		
		16-24	1600	300	1300	0	1300		
	15th April 2014 to 17th April 2014	00-24	1800	300	1500	0	1500		
	18th April 2014 to 27th April 2014	00-24	1800	300	1500	427	1073		
	28th April 2014	00-09	1800	300	1500	427	1073		
		09-24'	1500		1200		773	-300	
29th April 2014	00-18'	1500	300	1200	427	773			
	18-24	1800		1500		1073			
30th April 2014	00-24	1800	300	1500	427	1073			
ER-W3	1st April 2014 to 30th April 2014	00-24	1000	300	700	700	0		

Revised due to shutdown of 400 kV Rourkela-Sundergarh-Raigarh Ckt-I

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<b>WR-SR</b>	1st April 2014 to 30th April 2014	00-24	1000	0	1000	1000	0		
<b>SR-WR *</b>	1st April 2014 to 30th April 2014	00-24	1000	0	1000	0	1000		
<b>ER-SR</b>	1st April 2014 to 12th April 2014	00-05 10-19	750	0	750	507	243		
		05-10 19-24	750		750		243		
	13th April 2014	00-05 14-19	750	0	750	507	243		
		07-14'	450		450		0		
		05-07 19-24	750		750		243		
	14th April 2014 to 30th April 2014	00-05 10-19	750	0	750	507	243		
05-10 19-24		750	750		243				
<b>SR-ER *</b>	1st April 2014 to 30th April 2014	00-17 23-24 17-23	1100 1100	0	1100 1100	197	903 903		
<b>ER-NER<sup>2</sup></b>	1st April 2014	00-17 23-24	620	50	570	230	340		
		17-23	620		570		340		
	2nd April 2014 to 04th April 2014	00-06	620	50	570	230	340		
		06-24'	350		300		70		
	05th April 2014 to 07th April 2014	00-17 23-24	620	50	570	230	340		
		17-23	620		570		340		
	08th April 2014 to 10th April 2014	00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
	11th April 2014 to 12th April 2014	00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
	13th April 2014	00-05	720	50	670	230	440		
		05-17' 23-24	660		610		380		
		17-23	660		610		380		
	14th April 2014 to 15th April 2014	00-05	720	50	670	230	440		
		05-17' 23-24	660		610		380		
		17-23	660		610		380		
	16th April 2014 to 20th April 2014	00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
	21st April 2014 to 22nd April 2014	00-06 23-24	720	50	670	230	440		
		06-17'	560		510		280		
17-19		510							
19-23		620			390				
23rd April 2014 to 24th April 2014	00-17 23-24	720	50	670	230	440			
	17-23	670		620		390			
25th April 2014 to 30th April 2014	00-17 23-24	720	50	670	230	440			
	17-23	670		620		390			

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NER-ER	1st April 2014	00-17	580	100	480	0	480		
		23-24			460		460		
		17-23	560		480		480		
	02nd April 2014 to 04th April 2014	00-06	580	100	10	0	10		
		06-17	110		10		10		
		23-24	110		480		480		
	05th April 2014 to 12th April 2014	00-17	580	100	480	0	480		
		23-24	560		460		460		
		17-23	580		480		480		
	13th April 2014	00-06	580	100	480	0	480		
		06-17	580		480		480		
		23-24	560		460		460		
	14th April 2014 to 15th April 2014	00-06	580	100	480	0	480		
		06-17	480		380		380		
		23-24	480		380		380		
	16th April 2014 to 30th April 2014	00-17	580	100	480	0	480		
		23-24	560		460		460		
		17-23	580		480		480		
<b>S1-S2</b>	1st April 2014 to 30th April 2014	00-24	5650	400	5250	4900	350		
<b>Import of Punjab</b>	1st April 2014 to 30th April 2014	00-24	5600	300	5300	3800	1500		
<b>Import TTC for DD &amp; DNH</b>	1st April 2014 to 30th April 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
<b>W3 zone Injection</b>	1st April 2014 to 10th April 2014	00-17	9000	200	8800	6901	1899		
		23-24	9500		9300		2399		
	11th April 2014 to 15th April 2014	00-17	8700	200	8500	6901	1599		
		23-24	9200		9000		2099		
	16th April 2014 to 22nd April 2014	00-17	9000	200	8800	6901	1899		
		23-24	9500		9300		2399		
	23rd April 2014 to 25th April 2014	00-17	8700	200	8500	6901	1599		
		23-24	9200		9000		2099		
	26th April 2014 to 30th April 2014	00-17	9000	200	8800	6901	1899		
		23-24	9500		9300		2399		

\* 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).

- 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, k) KSK Mahanadi, L)DB Power, m) KWPCCL

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.

# The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be less. RLDC/ NLDC would factor this situation while issuing STOA approvals

\$ 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.

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**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 Gwalior-Agra one circuit

**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 (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
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 (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/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 line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1) contingency of 400 kV Raipur-Wardha-Parli section

\*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
<b>ER</b>									
<b>NR<sup>1</sup></b>	1st April 2014 to 7th April 2014	00-17 23-24	7500	800	6700	6445	255		
		17-23	7500		6700		255		
	08th April 2014 to 10th April 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
	11th April 2014 to 20th April 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
	21st April 2014 to 22nd April 2014	00-06 19-24	8000	800	7200	6445	755		
		06-19'	6800		6000		0		
	23rd April 2014 to 24th April 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
	25th April 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
	26th April 2014	00-09'	8000	800	7200	6445	755		
		09-11'	7600		6800		355		
		11-24'	8000		7200		755		
	27th April 2014 to 30th April 2014	00-17 23-24	8000	800	7200	6445	755		
		17-23	8000		7200		755		
	<b>NER<sup>2</sup></b>	1st April 2014	00-17 23-24	620	50	570	230	340	
17-23			620	570		340			
2nd April 2014 to 04th April 2014		00-06 06-24'	620	50	570	230	340		
			350		300		70		
05th April 2014 to 07th April 2014		00-17 23-24	620	50	570	230	340		
		17-23	620		570		340		
08th April 2014 to 10th April 2014		00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
11th April 2014 to 12th April 2014		00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
13th April 2014		00-05	720	50	670	230	440		
		05-17'	660		610		380		
	23-24 17-23	660	610		380				

**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
NER <sup>2</sup>	14th April 2014 to 15th April 2014	00-05	720	50	670	230	440		
		05-17'	660		610		380		
		23-24 17-23	660		610		380		
	16th April 2014 to 20th April 2014	00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
	21st April 2014 to 22nd April 2014	00-06 23-24	720	50	670	230	440		
		06-17'	560		510		280		
		17-19' 19-23	670		510 620		390		
	23rd April 2014 to 24th April 2014	00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
	25th April 2014 to 30th April 2014	00-17 23-24	720	50	670	230	440		
		17-23	670		620		390		
	WR								
SR	1st April 2014 to 12th April 2014	00-05 10-19	1750	0	1750	1507	243		
		05-10 19-24	1750		1750		243		
	13th April 2014	00-05 14-16'	1750	0	1750	1507	243		
		07-14'	1450		1450		0		
		05-07 19-24	1750		1750		243		
	14th April 2014 to 30th April 2014	00-05 10-19	1750	0	1750	1507	243		
		05-10 19-24	1750		1750		243		

**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 Gwalior-Agra one circuit

**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 April 2014 to 30th April 2014	00-17 23-24	3500	700	2800	561	2239		
		17-23	3600		2900		2339		
NER	1st April 2014	00-17 23-24	580	100	480	0	480		
		17-23	560		460		460		
	02nd April 2014 to 04th April 2014	00-06	580	100	480	0	480		
		06-17 23-24	110		10		10		
		17-23	110		10		10		
	05th April 2014 to 12th April 2014	00-17 23-24	580	100	480	0	480		
		17-23	560		460		460		
	13th April 2014	00-06	580	100	480	0	480		
		06-17 23-24	580		480		480		
		17-23	560		460		460		
	14th April 2014 to 15th April 2014	00-06	580	100	480	0	480		
		06-17 23-24	480		380		380		
		17-23	480		380		380		
	16th April 2014 to 30th April 2014	00-17 23-24	580	100	480	0	480		
17-23		560	460		460				
WR									
SR*	1st April 2014 to 30th April 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**

NR	<b>Import</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	<b>Import</b>	(n-1) contingency of 400 kV Kahalgaon-Biharshariff and (n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	<b>Import</b>	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.
	<b>Export</b>	

\*Primary constraints

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

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	22-01-2014	Whole Month	Revised due to commissioning of 765kV Raichur-Sholapur S/C	WR-SR / ER-SR
2	19-02-2014	Whole Month	Revised due to change in Inter-regional flow pattern & COD of Sasan UMPP Unit-2	WR-NR
			Revised considering operational experience and margins on HVDC	WR-SR / ER-SR
			Review of flow pattern due to network topology change and Load Generation Balance.	W3 Zone Injection
3	07-03-2014	Whole Month	STOA/PX transactions on West-East-North Corridor discontinued on account of Inter-Regional Loop flows leading to physical congestion on WR-NR.	ER-NR/ WR-NR
4	13-03-2014	Whole Month	Margin revised due to withdrawal/cancellation of 150MW MTOA from Corporate Power Limited	ER-SR
5	25-03-2014	Whole Month	Revised due to Non commissioning of Kudankulam U-1 & Vallur U-3	S1-S2
6	30-03-2014	01/04/2014 - 10/04/2014	Revised due to shutdown of 400 kV Barh-Patna D/C	ER-NER / ER-NR
		Whole Month	Margin Revised due to Non commissioning of Neyveli TS2 expn	S1-S2
7	01-04-2014	02/04/2014 - 04/04/2014	Revised due to shutdown of 400 kV Balipara-Misa D/C and 220 kV Samaguri-Sarusujai D/C	ER-NER / NER-ER
8	07-04-2014	08/04/2014 - 10/04/2014	Revised due to return of 400 kV Barh-Patna D/C shutdown	ER-NER / ER-NR
9	10-04-2014	12/04/2014 - 13/04/2014	Revised due to shutdown of 400 kV Ranchi-Sipat D/C	W3-ER
		11/04/2014 - 15/04/2014	Revised due to shutdown of 400 kV Seoni-Bhilai	W3
10	11-04-2014	13/04/2014 - 15/04/2014	Revised due to shutdown of 220 kV Birpara-Salakati D/C	ER-NER / NER-ER
		13-04-2014	Revised due to emergency shutdown of 400 kV Anugul-JITPL	ER-SR
11	12-04-2014	13-04-2014	Revised due to rescheduling of 220 kV Birpara-Salakati D/C shutdown	ER-NER / NER-ER
12	13-04-2014	14-04-2014	Revised due to shutdown of 400 kV Rourkela-Jharsuguda Ckt 1	W3-ER
13	17-04-2014	18/04/2014 - 30/04/2014	Allocation of Power from WR to Bangladesh and Southern region Incorporated.	W3-ER
14	20-04-2014	21/04/2014 - 22/04/2014	Revised due to emergency shutdown of Main Bus-I & II of Koderma and 400 kV Maithon-Koderma-Biharsariff S/C	ER-NR/ ER-NER
15	22-04-2014	23/04/2014- 25/04/2014	Revised due to shutdown of 400kV Bhilai-Seoni	W3 Zone Injection
16	24-04-2014	25/04/2014- 30/04/2014	Revised due to shutdown of 400kV Kahalgaon-Barh D/C	ER-NER/ ER-NR
17	24-04-2014	25/04/2014- 30/04/2015	Revised due to cancellation of 400kV Kahalgaon-Barh D/C shutdown.	ER-NER/ ER-NR



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18	25-04-2014	26-04-2014	Revised due to shutdown of 765kV Agra Bus-I	WR-NR
19	26-04-2014	26-04-2014	Revised due to 765kV Agra Bus-I shutdown not being availed.	WR-NR
20	27-04-2014	28/04/2014 - 29/04/2014	Revised due to shutdown of 400 kV Rourkela-Sundergarh-Raigarh Ckt-I	W3-ER

## ASSUMPTIONS IN BASECASE

Month : April '14

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
<b>I</b>	<b>NORTHERN REGION</b>				
1	Punjab	5971	5191	2258	2229
2	Haryana	5885	5116	3178	3178
3	Rajasthan	7955	6916	5132	5116
4	Delhi	4102	3566	1296	1296
5	Uttar Pradesh	11500	10090	6358	6354
6	Jammu & Kashmir	2133	1854	387	420
7	Uttarakhand	1628	1415	461	416
8	Himachal Pradesh	1413	1228	469	385
9	Chandigarh	238	192	0	0
10	ISGS/IPPs			17197	11973
	<b>Total NR</b>	<b>40825</b>	<b>35568</b>	<b>36736</b>	<b>31367</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6600	5100	4797	3999
2	Jharkhand	1000	800	450	450
3	Orissa	3400	2600	2404	1600
4	Bihar	2000	1600	0	0
5	Damodar Valley Corporation	2600	2350	3600	3397
6	Sikkim	90	50	0	0
7	Bhutan	110	110	200	200
8	ISGS/IPPs	250	250	6850	6490
	<b>Total ER</b>	<b>16050</b>	<b>12860</b>	<b>18301</b>	<b>16136</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	3409	2219	1628	1629
2	Madhya Pradesh	7452	5051	3847	3003
3	Maharashtra	16644	16097	12273	11027
4	Gujarat	12328	10980	10791	9002
5	Goa	384	352		
6	Daman and Diu	195	260		
7	Dadra and Nagar Haveli	545	582		
8	ISGS/IPPs	1344	1244	18231	16949
	<b>Total WR</b>	<b>42301</b>	<b>36785</b>	<b>46770</b>	<b>41610</b>

<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	12114	10011	7509	6688
2	Tamil Nadu	11539	10115	7173	6000
3	Karnataka	8407	7250	6874	5088
4	Kerala	3310	2451	1724	461
5	Pondy	329	286		
6	Goa	84	84		
7	ISGS/IPPs			10280	9536
	<b>Total SR</b>	<b>35783</b>	<b>30197</b>	<b>33560</b>	<b>27773</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Arunachal Pradesh	120	84	0	0
2	Assam	1300	955	220	190
3	Manipur	120	84	0	0
4	Meghalaya	310	217	70	50
5	Mizoram	75	53	0	0
6	Nagaland	120	84	12	10
7	Tripura	230	130	105	100
8	ISGS/IPPs			963	597
	<b>Total NER</b>	<b>2275</b>	<b>1607</b>	<b>1370</b>	<b>947</b>
	<b>Total All India</b>	<b>137234</b>	<b>117017</b>	<b>136736</b>	<b>117833</b>