

**National Load Despatch Centre  
Total Transfer Capability for January 2013**

Issue Date: 17/01/2013

Issue Time: 1230 hrs

Revision No.13

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)	Comments
NR-WR	1st January 2013 to 31st January 2013	00-24	1500	200	1300	286	1014	
WR-NR	1st January 2013 to 15th January 2013	00-24	1700	200	1500	780	720	LTA revised due to commissioning of CGPL unit-3
	16th January 2013 to 17th January 2013	00-09 18-24	1700	200	1500	780	720	Revised due to Shutdown of 220kV Kota-Badod
		09-18'	1600		1400		620	
	18th January 2013 to 31st January 2013	00-24	1700	200	1500	780	720	
NR-ER	1st January 2013 to 31st January 2013	00-17 23-24	800	200	600	0	600	
		17-23	900		700		700	
ER-NR#	1st January 2013 to 3rd January 2013	00-17 23-24	2350	300	2050	1770	280	DVC LTA figures to NR included
		17-23					280	
	4th January 2013	00-10 12-24	2350	300	2050	1770	280	Revised due to emergency shutdown of 400 KV Kahalgaon - Biharsariff - II
		10-12'					180	
	5th January 2013 to 17th January 2013	00-17 23-24	2350	300	2050	1770	280	
		17-23					280	
	18th January 2013	00-11 19-24	2350	300	2050	1770	280	Revised due to Emergency shutdown of 400kV Malda-New Purnea-I
		11-19'					0	
	19th January 2013 to 31st January 2013	00-17 23-24	2350	300	2050	1770	280	
		17-23					280	
W3-ER	1st January 2012 to 31st January 2012	00-24	1400	300	1100	0	1100	
ER-W3	1st January 2012 to 31st January 2012	00-24	900	250	650	650	0	
WR-SR	1st January 2013 to 31st January 2013	00-24	1000	0	1000	992	8	
SR-WR	1st January 2013 to 31st January 2013	00-24	1000	0	1000	0	1000	
ER-SR	1st January 2013 to 7th January 2013	00-05 10-19	830	0	830	170	660	Revised due to full availability of ER ISGS, TSTPP st-II and less drawal by Odisha.
		05-10 19-24	950*		950*		780*	
	8th January 2013	00-05 17-19	830	0	830	170	660	Revised due to shutdown of 400 kV Baripada-Kharagpur-Kolaghat.
		05-07' 19-24	950*	0	950*	170	780*	
		07-10'	750*	0	750*	170*	580*	
		10-17'	750	0	750	170	580	
	9th January 2013 to 12th January 2013	00-05 10-19	830	0	830	170	660	
		05-10 19-24	950*		950*		780*	
	13th January 2013	00-05	830	0	830	170	660	Revised due to shutdown of HVDC Talcher-Kolar Pole 1
		05-19'	170		170		0	
		19-24	950*		950*		780*	
	14th Januray 2013	00-05	830	0	830	170	660	Revised due to shutdown of HVDC Talcher-Kolar Pole 2
		05-19'	0		0		0	
		19-24	950*		950*		780*	
	15th January 2013	00-05 16-19	830	0	830	170	660	Revised due to shutdown of 400 KV Kolaghat - Baripada
		07-16'	750		750		580	
05-07 19-24		950*	950*		780*			
16th January 2013- 31st January 2013	00-05 10-19	830	0	830	170	660		
	05-10 19-24	950*		950*		780*		
SR-ER	1st January 2012 to 31st January 2012	00-17 23-24	700	0	700	197	503	
		17-23	700		700		503	

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ER-NER#	1st January 2013 to 15th January 2013	00-17 23-24	450	35	415	182	233	1. Revised due to Shutdown of 400 kV Balipara – Bongaigaon II from 16.01.13 to 19.01.13. 2. Revised due to Emergency shutdown of 400kV Malda-New Purnea-I on 18.01.13.		
		17-23	450		415	186	229			
	16th January 2013 to 17th January 2013	00-08 17-24	450	35	415	182	233			
		08-17'	240		205	205	0			
	18th January 2013	00-08 19-24	450	35	415	182	233			
		08-19'	240		205	205	0			
	19th January 2013	00-08 17-24	450	35	415	182	233			
		08-17'	240		205	205	0			
	20th January 2013 to 31st January 2013	00-17 23-24	450	35	415	182	233			
		17-23	450		415	186	229			
NER-ER#	1st January 2013 to 15th January 2013	00-17 23-24	600	100	500	0	500	1. Revised due to Shutdown of 400 kV Balipara – Bongaigaon II from 16.01.13 to 19.01.13. 2. Revised due to Emergency shutdown of 400kV Malda-New Purnea-I on 18.01.13.		
		17-23	300		200	0	200			
	16th January 2013 to 17th January 2013	00-08 23-24	600	100	500	0	500			
		08-17'	100		0	0	0			
		17-23	300		200	200	200			
	18th January 2013	00-08 23-24	600	100	500	0	500			
		08-19'	100		0	0	0			
		19-23	300		200	200	200			
	19th January 2013	00-08 23-24	600	100	500	0	500			
		08-17'	100		0	0	0			
		17-23	300		200	200	200			
	20th January 2013 to 31st January 2013	00-17 23-24	600	100	500	0	500			
		17-23	300		200	0	200			
	S1-S2	1st January 2013 to 31st January 2013	00-24	5500	200	5300	4000		1300	
	Import of Punjab	1st January 2013 to 31st January 2013	00-24	5400	300	5100	3243		1857	
	Import TTC for DD & DNH	1st January 2013 to 31st January 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st January 2013 to 4th January 2013	00-18, 22-24	7000	200	6800	6400	400	6400 MW corresponds to maximum effective LTA from W3. Export Margin from W3 would vary on daily basis as per the Declared Capability (DC) of generators scheduling power on long term basis in the zone.  1. Revised due to Commissioning of 400 kV Raipur-Wardha D/C with 40% Series Compensation at Wardha end. 2. Shutdown of 765 kV Seoni-Wardha ckt-1 and Seoni-Bina from 05.01.13 to 07.01.13.  Revised due to shutdown of 765 kV Seoni-Wardha I from 09.01.13 to 10.01.13		
		18-22	7500		7300		900			
	5th January 2013	00-08'	8000	200	7800	6400	1400			
		08-17'	7500		7300		900			
		17-23'	8000		7800		1400			
		23-24	7500		7300		900			
	6th January 2013 to 7th January 2013	00-17' 23-24	7500	200	7300	6400	900			
		17-23'	8000		7800		1400			
	8th January 2013	00-17, 23-24	8000	200	7800	6400	1400			
		17-23	8500		8300		1900			
	9th January 2013	00-08	8000	200	7800	6400	1400			
		08-17'	7500		7300		900			
		17-23	8000		7800		1400			
		23-24	7500		7300		900			
	10th January 2013	00-17	7500	200	7300	6400	900			
		17-19	8000		7800		1400			
19-23		8500	8300		1900					
23-24		8000	7800		1400					
11th January 2013 to 31st January 2013	00-17, 23-24	8000	200	7800	6400	1400				
	17-23	8500		8300		1900				

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- 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 and would be operational wef 0000 hrs of 18th September 2012  
 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  
 \* additional 250 MW can be transferred to SR if injection point is South Odisha

**Limiting Constraints**

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
WR-NR	(n-1) contingency of 400 kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
W3-ER	(n-1) contingency of 400 kV Farakka-Malda*
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 Rourkela-Jamshedpur
WR-SR	Bhadrawati HVDC B/B link capacity (n-1) Coningency of 400kV Gooty-Somanhalli & 400kV Gooty-Nelamangala I
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	(n-1) contingency of 400 kV Rourkela-Talcher* Low Voltage in Chennai Area (n-1) contingency of 400 kV Vijaywada-Nellore*
SR-ER	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	(n-1) contingency of 400 kV Farakka-Malda* High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa, Balipara
NER-ER	(n-1) contingency of 400 kV Binaguri-Bongaigaon High loading of 132 kV LTSPS - Mariani*
S1-S2	(n-1) contingency of 400 kV Hosur-Salem
Import of Punjab	(n-1) contingency of ICT at Moga
W3 zone export TTC	(n-1) contingency of 400 kV Raipur-Wardha and High loading of 400 kV Bhilai-Koradi

\*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)	Comments			
<b>ER</b>											
<b>NR#</b>	1st January 2013 to 3rd January 2013	00-17 23-24	4050	500	3550	2550	1000	LTA revised due to commissioning of CGPL unit-3			
		17-23							3550	2550	1000
	4th January 2013	00-17 23-24	4050	500	3550	2550	1000	Revised due to emergency shutdown of 400 KV Kahalgaon - Biharsariff - II			
		17-23							3950	3450	2550
	5th January 2013 to 15th January 2013	00-17 23-24	4050	500	3550	2550	1000				
		17-23							3550	2550	1000
	16th January 2013 to 17th January 2013	00-09 18-24	4050	500	3550	2550	1000	Revised due to Shutdown of 220kV Kota-Badod			
		09-18'							3950	3450	900
	18th January 2013	00-11 19-24	4050	500	3550	2550	1000	Revised due to emergency shutdown of 400kV Malda-New Purnea-I			
		11-19'							3610	3110	2550
	19th January 2013 to 31st January 2013	00-17 23-24	4050	500	3550	2550	1000				
		17-23							3550	2550	1000
<b>NER#</b>	1st January 2013 to 15th January 2013	00-17 23-24	450	35	415	182	233	1. Revised due to Shutdown of 400 kV Balipara – Bongaigaon II from 16.01.13 to 19.01.13. 2. Revised due to Emergency shutdown of 400kV Malda-New Purnea-I on 18.01.13.			
		17-23							450	415	186
	16th January 2013 to 17th January 2013	00-08 17-24	450	35	415	182	233				
		08-17'							240	205	205
	18th January 2013	00-08 17-24	450	35	415	182	233				
		08-19'							240	205	205
	19th January 2013	00-08 17-24	450	35	415	182	233				
		08-17'							240	205	205
	20th January 2013 to 31st January 2013	00-17 23-24	450	35	415	182	233				
		17-23							450	415	186
<b>WR</b>											
<b>SR</b>	1st January 2013 to 7th January 2013	00-05 10-19	1830	0	1830	1162	668	Revised due to shutdown of 400 kV Baripada-Kharagpur-Kolaghat. Revised due to shutdown of HVDC Talcher-Kolar Pole 1 Revised due to shutdown of HVDC Talcher-Kolar Pole 2 Revised due to shutdown of 400 KV Kolaghat - Baripada			
		05-10 19-24							1950*	1950*	788*
	8th January 2013	00-05 17-19	1830	0	1830	1162	668				
		05-07' 19-24							1950*	1950*	788*
		07-10' 19-24							1750*	1750*	588*
		10-17'							1750	1750	588
	9th January 2013 to 12th January 2013	00-05 10-19	1830	0	1830	1162	668				
		05-10 19-24							1950*	1950*	788*
	13th January 2013	00-05 10-19	1830	0	1830	1162	668				
		05-19' 19-24							1170	1170	8
		19-24							1950*	1950*	788*
	14th January 2013	00-05 10-19	1830	0	1830	1162	668				
		05-19' 19-24							0	0	0
		19-24							1950*	1950*	788*
	15th January 2013	00-05 16-19	1830	0	1830	1162	668				
		07-16' 19-24							1750	1750	588
		05-07 19-24							1950*	1950*	788*
	16th January 2013-31st January 2013	00-05 10-19	1830	0	1830	1162	668				
05-10 19-24		1950*						1950*	788*		

\* additional 250 MW can be transferred to SR if injection point is South Odisha

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)	Comments
ER-NR + ER-NER	1st January 2013 to 31st January 2013	00-17 23-24	2700	350	2350	1395	955	
		17-23	2700		2350	1397	953	
NR	1st January 2013 to 31st January 2013	00-24	2300	500	1800	286	1514	
NER#	1st January 2013 to 15th January 2013	00-17 23-24	600	100	500	0	500	1. Revised due to Shutdown of 400 kV Balipara – Bongaigaon II from 16.01.13 to 19.01.13. 2. Revised due to Emergency shutdown of 400kV Malda-New Purmea-I on 18.01.13.
		17-23	300		200		200	
	16th January 2013 to 17th January 2013	00-08 23-24	600	100	500	0	500	
		08-17'	100		0		0	
		17-23	300		200		200	
	18th January 2013	00-08 23-24	600	100	500	0	500	
		08-19'	100		0		0	
		19-23	300		200		200	
	19th January 2013	00-08 23-24	600	100	500	0	500	
		08-17'	100		0		0	
		17-23	300		200		200	
	20th January 2013 to 31st January 2013	00-17 23-24	600	100	500	0	500	
		17-23	300		200		200	
	WR							
SR	1st January 2013 to 31st January 2013	00-17 23-24	1700	0	1700	197	1503	
		17-23	1700		1700		1503	

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Bina-Gwalior*
	Export	(n-1) contingency of 400 kV Pusauli-Biharsharif
NER	Import	High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri High Loading of 400/220 kV 315 MVA ICT at Misa* (n-1) contingency of 400 kV Farakka-Malda*
	Export	High loading of 132 kV LTPS - Marian (n-1) contingency of 400 kV Binaguri-Bongaigaon*
SR	Import	(n-1) Coningency of 400kV Gooty-Somanhalli & 400kV Gooty-Nelamangala I (n-1) contingency of 400 kV Rourkela-Talcher* Low Voltage in Chennai Area (n-1) contingency of 400 kV Vijaywada-Nellore
	Export	(n-1) contingency of Chandrapur-Parli (n-1) contingency of 400 kV Maithon Kahalgaon (n-1) contingency of 400 kV Kadappa-Kolar and Neyveli- Sriperumbudur
ER-NR + ER-NER	Export	(n-1) contingency of 400 kV Farakka-Malda*

## ASSUMPTIONS IN BASECASE

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	5260	3870	2340	2200
2	Haryana	5160	4690	3430	3430
3	Rajasthan	7310	6600	3980	3950
4	Delhi	4060	3400	1420	1420
5	Uttar Pradesh	10550	9300	5310	5220
6	Jammu & Kashmir	1990	1400	310	250
7	Uttarakhand	1330	1100	500	280
8	Himachal Pradesh	1060	970	250	150
9	Chandigarh	250	100	0	0
10	ISGS			15860	10570
	<b>Total NR</b>	<b>36970</b>	<b>31430</b>	<b>33400</b>	<b>27470</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	5300	4150	4600	3950
2	Jharkhand	900	850	390	390
3	Orissa	3000	2500	2800	2090
4	Bihar	1500	1300	130	130
5	Damodar Valley Corporation	2200	1900	1550	1550
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			6300	5900
	<b>Total ER</b>	<b>13070</b>	<b>10870</b>	<b>17170</b>	<b>15410</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2770	2140	2520	1990
2	Madhya Pradesh	7650	6230	3440	2800
3	Maharashtra	15660	11910	13110	9450
4	Gujarat	9910	7880	9930	7560
5	Goa	330	200		
6	Daman and Diu	220	160		
7	Dadra and Nagar Haveli	530	240		
8	ISGS			13260	11700
	<b>Total WR</b>	<b>37070</b>	<b>28760</b>	<b>42260</b>	<b>33500</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10480	9150	7830	5880
2	Tamil Nadu	10120	8950	4960	3800
3	Karnataka	7640	6100	4500	3440
4	Kerala	3240	2420	900	580
5	Pondy	300	240		
6	Goa	80	80		
7	ISGS			11520	11300
	<b>Total SR</b>	<b>31860</b>	<b>26940</b>	<b>29710</b>	<b>25000</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	100	60	0	0
2	Meghalaya	280	170	110	70
3	Mizoram	70	40	10	10
4	Nagaland	80	60	10	10
5	Assam	880	570	270	220
6	Tripura	210	150	100	90
7	Arunachal Pradesh	100	30	0	0
8	ISGS	0	0	820	420
	<b>Total NER</b>	<b>1720</b>	<b>1080</b>	<b>1320</b>	<b>820</b>
	<b>Total All India</b>	<b>120690</b>	<b>99080</b>	<b>123860</b>	<b>102200</b>