

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

Issue Date: 22/01/2013

Issue Time: 1200 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)	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-30
	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 21st January 2013	00-24	1700	200	1500	780	720	
22nd January 2013 to 31st January 2013	00-24	1700	200	1500	1040	460	LTA/MTOA revised due to COD of CGPL unit-40.	
NR-ER	1st January 2013 to 31st January 2013	00-17 23-24 17-23	800 900	200	600 700	0	600 700	
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				1770	280	
	4th January 2013	00-10 12-24	2350	300	2050	1770	280	Revised due to emergency shutdown of 400 KV Kahalgaon - Biharsharif - II
		10-12'				2250	1950	
	5th January 2013 to 17th January 2013	00-17 23-24	2350	300	2050	1770	280	
		17-23				1770	280	
	18th January 2013	00-11 19-24	2350	300	2050	1770	280	Revised due to Emergency shutdown of 400kV Malda-New Purnea-1
		11-19'				1910	1610	
	19th January 2013 to 22nd January 2013	00-17 23-24 17-23	2350	300	2050	1770 1770	280 280	
	23rd January 2013 to 25th January 2013	00-09 18-24	2350	300	2050	1770	280	Revised to Shutdown of (1)400kV Banka-Biharsharif-1 on 23.01.13 from 09 to 17 hrs. (2)400kV Banka-Kahalgaon-1 on 24.01.13 from 09 to 17 hrs. (3)400kV Banka-Kahalgaon-2 on 25.01.13 from 09 to 17 hrs.
09-18'		1800				1500	1500	
26th January 2013 to 27th January 2013	00-17 23-24	2350	300	2050	1770	280		
	17-23				1770	280		
28th January 2013	00-09 18-24	2350	300	2050	1770	280	Revised to Shutdown of (1)400kV Banka-Biharsharif-2 on 28.01.13 from 09 to 17 hrs.	
	09-18'				1800	1500		1500
29th January 2013 to 31st January 2013	00-17 23-24 17-23	2350	300	2050	1770 1770	280 280		
W3-ER	1st January 2012 to 20th January 2012	00-24	1400	300	1100	0	1100	
	21st January 2012	00-07, 18-24	1400	300	1100	0	1100	Revised due to shutdown of 400 kV Sipat-Ranchi D/C
		07-18'						
	22nd January 2012	00-07, 18-24	1400	300	1100	0	1100	Revised due to extension of 400 kV Sipat-Ranchi D/C shutdown.
07-18'		1200						
23rd 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	

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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*	
		00-05 17-19	830		830		660	
	8th January 2013	05-07 19-24	950*	0	950*	170	780*	Revised due to shutdown of 400 kV Baripada-Kharagpur-Kolaghat.
		07-10 19-24	750*	0	750*	170*	580*	
		10-17 19-24	750	0	750	170	580	
		00-05 10-19	830	0	830	170	660	
	05-10 19-24	950*	950*		780*			
	13th January 2013	00-05 19-24	830	0	830	170	660	Revised due to shutdown of HVDC Talcher-Kolar Pole 1
		05-19 19-24	170		170		0	
		19-24	950*		950*		780*	
	14th January 2013	00-05 19-24	830	0	830	170	660	Revised due to shutdown of HVDC Talcher-Kolar Pole 2
		05-19 19-24	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 19-24	750		750		580	
		05-07 19-24	950*		950*		780*	
		00-05 10-19	830		0		830	
05-10 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*		
	00-17 23-24	700		0		700		197
17-23	700	700	503					
ER-NER#	1st January 2013 to 15th January 2013	00-17 23-24	450	35	415	182	233	
		17-23	450		415	186	229	
		00-08 17-24	450		415	182	233	
	16th January 2013 to 17th January 2013	08-17	240	35	205	205	0	
		00-08 19-24	450	35	415	182	233	
	18th January 2013	08-19	240	35	205	205	0	
		00-08 17-24	450	35	415	182	233	
	19th January 2013	08-17	240	35	205	205	0	
		00-17 23-24	450	35	415	182	233	
	20th January 2013 to 22nd January 2013	17-23	450		415	186	229	
		23rd January 2013 to 25th January 2013	00-09 18-24	450	35	415	182	
	09-18		300	265		186	79	
	26th January 2013 to 27th January 2013	00-17 23-24	450	35	415	182	233	
		17-23	450		415	186	229	
	28th January 2013	00-09 18-24	450	35	415	182	233	
		09-18	300		265	186	79	
	29th 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	
		17-23	300		200	200		
		00-08 23-24	600		100	500	0	500
	16th January 2013 to 17th January 2013	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	

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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.
		18-22	7500		7300		900	
	5th January 2013	00-08'	8000	200	7800	6400	1400	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.
		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	200	7800	6400	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	Revised due to shutdown of 765 kV Seoni-Wardha I from 09.01.13 to 10.01.13
		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 Neyveli- 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 LTPS - 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	
ER									
NR#	1st January 2013 to 3rd January 2013	00-17 23-24 17-23	4050	500	3550 3550	2550 2550	1000 1000	LTA revised due to commissioning of CGPL unit-30.	
	4th January 2013	00-17 23-24 17-23	4050 3950	500	3550 3450	2550 2550	1000 900	Revised due to emergency shutdown of 400 KV Kahalgaon - Biharsariff - II	
	5th January 2013 to 15th January 2013	00-17 23-24 17-23	4050	500	3550 3550	2550 2550	1000 1000		
	16th January 2013 to 17th January 2013	00-09 18-24 09-18'	4050 3950	500	3550 3450	2550	1000 900	Revised due to Shutdown of 220kV Kota-Badod	
	18th January 2013	00-11 19-24 11-19'	4050 3610	500	3550 3110	2550 2550	1000 560	Revised due to Emergency shutdown of 400KV Malda-New Purnea-I	
	19th January 2013 to 21st January 2013	00-17 23-24 17-23	4050	500	3550 3550	2550 2550	1000 1000		
	22nd January 2013 to 31st January 2013	00-17 23-24 17-23	4050	500	3550 3550	2810 2810	740 740	LTA/MTOA revised due to COD of CGPL unit-40.	
	23rd January 2013 to 25th January 2013	00-09 18-24 09-18'	4050 3500	500	3550 3000	2810 2540	740 460	Revised to Shutdown of (1)400kV Banka-Biharshariff-1 on 23.01.13 from 09 to 17 hrs. (2)400kV Banka-Kahalgaon-1 on 24.01.13 from 09 to 17 hrs. (3)400kV Banka-Kahalgaon-2 on 25.01.13 from 09 to 17 hrs.	
	26th January 2013 to 27th January 2013	00-17 23-24 17-23	4050	500	3550	2810 2810	740 740		
	28th January 2013	00-09 18-24 09-18'	4050 3500	500	3550 3000	2810 2540	740 460	Revised to Shutdown of (1)400kV Banka-Biharshariff-2 on 28.01.13 from 09 to 17 hrs.	
	29th January 2013 to 31st January 2013	00-17 23-24 17-23	4050	500	3550	2810 2810	740 740		
	NER#	1st January 2013 to 15th January 2013	00-17 23-24 17-23	450 450	35	415 415	182 186	233 229	
		16th January 2013 to 17th January 2013	00-08 17-24 08-17'	450 240	35	415 205	182 205	233 0	1. Revised due to Shutdown of 400 kV Balipara – Bongaigaon II from 16.01.13 to 19.01.13.
		18th January 2013	00-08 19-24 08-19'	450 240	35	415 205	182 205	233 0	2. Revised due to Emergency shutdown of 400KV Malda-New Purnea-I on 18.01.13.
		19th January 2013	00-08 17-24 08-17'	450 240	35	415 205	182 205	233 0	
20th January 2013 to 22nd January 2013		00-17 23-24 17-23	450 450	35	415 415	182 186	233 229		
23rd January 2013 to 25th January 2013		00-09 18-24 09-18'	450 300	35	415 265	182 186	233 79	Revised to Shutdown of (1)400kV Banka-Biharshariff-1 on 23.01.13 from 09 to 17 hrs. (2)400kV Banka-Kahalgaon-1 on 24.01.13 from 09 to 17 hrs. (3)400kV Banka-Kahalgaon-2 on 25.01.13 from 09 to 17 hrs.	
26th January 2013 to 27th January 2013		00-17 23-24 17-23	450 450	35	415 415	182 186	233 229		
28th January 2013		00-09 18-24 09-18'	450 300	35	415 265	182 186	233 79	Revised to Shutdown of (1)400kV Banka-Biharshariff-2 on 28.01.13 from 09 to 17 hrs.	
29th January 2013 to 31st January 2013		00-17 23-24 17-23	450 450	35	415 415	182 186	233 229		

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	
WR									
SR	1st January 2013 to 7th January 2013	00-05	1830	0	1830	1162	668		
		10-19							
		05-10 19-24	1950*		1950*		788*		
	8th January 2013	00-05	1830	0	1830	1162	668	Revised due to shutdown of 400 kV Baripada-Kharagpur-Kolaghat.	
		17-19							
		05-07 19-24	1950*		1950*		788*		
		07-10 10-17	1750*		1750*		588*		
	9th January 2013 to 12th January 2013	00-05	1830	0	1830	1162	668		
		10-19							
		05-10 19-24	1950*		1950*		788*		
	13th January 2013	00-05	1830	0	1830	1162	668	Revised due to shutdown of HVDC Talcher-Kolar Pole 1	
		05-19 19-24	1170		1170		8		
		19-24	1950*		1950*		788*		
	14th January 2013	00-05	1830	0	1830	1162	668	Revised due to shutdown of HVDC Talcher-Kolar Pole 2	
05-19 19-24		0	0		0				
19-24		1950*	1950*		788*				
15th January 2013	00-05	1830	0	1830	1162	668	Revised due to shutdown of 400 KV Kolaghat - Baripada		
	16-19								
	07-16 05-07 19-24	1750		1750		588			
16th January 2013-31st January 2013	00-05	1830	0	1830	1162	668			
	10-19								
	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 Purnea-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' 17-23	100		0		0	
		17-23	300		200		200	
	18th January 2013	00-08 23-24	600	100	500	0	500	
		08-19' 19-23	100		0		0	
		19-23	300		200		200	
	19th January 2013	00-08 23-24	600	100	500	0	500	
		08-17' 17-23	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 1 (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)
I	NORTHERN REGION				
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
	Total NR	36970	31430	33400	27470
II	EASTERN REGION				
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
	Total ER	13070	10870	17170	15410
III	WESTERN REGION				
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
	Total WR	37070	28760	42260	33500
IV	SOUTHERN REGION				
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
	Total SR	31860	26940	29710	25000
V	NORTH-EASTERN REGION				
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
	Total NER	1720	1080	1320	820
	Total All India	120690	99080	123860	102200