

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

Issue Date: 11/01/2013

Issue Time: 1700 hrs

Revision No.10

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 31st January 2013	00-24	1700	200	1500	780	720	LTA revised due to commissioning of CGPL unit-3
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					1770	
	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'						
	5th January 2013 to 31st January 2013	00-17 23-24	2350	300	2050	1770	280	
		17-23						
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 05-19'	830	0	830	170	660	Revised due to shutdown of HVDC Talcher-Kolar Pole 1
		19-24	950*		950*		780*	
		00-05 05-19'	830		0		830	
	19-24	950*	950*	780*				
	15th 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		
00-17 23-24			450	35		415		182
17-23	450	415	186		229			
NER-ER	1st January 2013 to 31st January 2013	00-17 23-24	600	100	500	0	500	
		17-23	300		200		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		

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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	

- 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
WR-ER	(n-1) contingency of 400 kV Farakka-Malda*
ER-WR	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	High loading of 400 kV Raipur-Bhadrawati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore*
SR-WR	Bhadrawati HVDC B/B link capacity (n-1) contingency of 400 kV Vijaywada-Nellore*
ER-SR	Low Voltage in Chennai Area (n-1) contingency of 400 kV Rourkela-Talcher*
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 LTPS - Mariani*
SI-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	4050	500	3550	2550	1000	LTA revised due to commissioning of CGPL unit-3					
		23-24											
	4th January 2013	00-17	4050	500	3550	2550	1000						
		23-24											
	5th January 2013 to 31st January 2013	17-23	3950	500	3450	2550	900		Revised due to emergency shutdown of 400 KV Kahalgaon - Biharsariff - II				
		00-17	4050							3550	2550	1000	
1st January 2013 to 31st January 2013	23-24	450		35	415	182	233						
	17-23		450					415	186	229			
WR													
SR	1st January 2013 to 7th January 2013	00-05	1830	0	1830	1162	668	Revised due to shutdown of 400 kV Baripada-Kharagpur-Kolaghat.					
		10-19											
	8th January 2013	05-10	1950*	0	1950*	1162	788*						
		19-24											
		00-05							1830	0	1830	1162	668
		17-19											
	05-07'	1950*	1750*	1750	588*								
	19-24												
	9th January 2013 to 12th January 2013	07-10'	1750	0	1830	1162	668						
		10-17'							1750	1830	1162	668	
	13th January 2013	00-05	1830	0	1830	1162	668						
		10-19							1950*	1830	1162	668	
		19-24											1950*
	14th January 2013	05-19'	1950*	0	1950*	1162	788*						
		19-24							1830	0	1830	1162	668
		00-05											
	15th January 2013-31st January 2013	05-19'	1950*	0	1950*	1162	788*						
		19-24							1830	0	1830	1162	668
		00-05											
			10-19	1950*	0	1950*	1162		788*				
			05-10										

* 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	

ER-NER	1st January 2013 to 31st January 2013	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 31st January 2013	00-17	600	100	500	0	500	
		23-24			200		200	
WR		17-23	300					
SR	1st January 2013 to 31st January 2013	00-17	1700	0	1700	197	1503	
		23-24			1700		1503	
		17-23	1700					

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	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C (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 Neyvelli- Sriperumbudur
ER-NR +	Export	
ER-NER		(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