National Load Despatch Centre Total Transfer Capability for January 2013

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	
	1st January 2013 to	17-23 00-17	900	300	700 2050	1770	700 280	DVC LTA figures to NR included
	3rd January 2013	23-24 17-23 00-10	2330	300	2030	1770	280	DVC LIA ligures to NK ilicidaed
ER-NR	4th January 2013	12-24 10-12'	2350	300	2050 1950	1770 1770	280 180	Revised due to emergency shutdown of 400 KV Kahalgaon - Biharsariff - II
	5th January 2013 to 31st January 2013	00-17 23-24	2350	300	2050	1770	280	
		17-23				1770	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	
	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
		05-10 19-24	950*	U	950*	170	780*	Odisha.
		00-05 17-19	830	0	830	170	660	
	8th January 2013	05-07'	950*	0	950*	170	780*	Revised due to shutdown of 400 kV Baripada-Kharagpur-Kolaghat.
		07-10' 10-17'	750* 750	0	750* 750	170* 170	580* 580	
	9th January 2013 to	00-05 10-19	830	0	830	170	660	
ER-SR#	12th January 2013	05-10 19-24	950*	Ů	950*	170	780*	
	13th January 2013	00-05	830 170	0	830 170	170	660 0	Revised due to shutdown of HVDC Talcher-Kolar Pole 1
	14th Januray 2013	19-24 00-05 05-19'	950* 830 0	0	950* 830 0	170	780* 660 0	Revised due to shutdown of HVDC
	14th Januray 2013	19-24	950*	· ·	950*	170	780*	Talcher-Kolar Pole 2
		00-05 16-19	830		830		660	Revised due to shutdown of 400 KV
	15th January 2013	07-16' 05-07	750	0	750	170	580	Kolaghat - Baripada
		19-24	950*		950*		780*	
	16th January 2013-	00-05 10-19	830	0	830	170	660	
	31st January 2013	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	

National Load Despatch Centre Total Transfer Capability for January 2013

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	
	1st January 2013 to	00-17	450	35	415	182	233		
	15th January 2013	23-24 17-23	450	33	415	186	229		
ER-NER#	16th I 2012 t-	00-08						Revised due to Shutdown of 400 kV	
	16th January 2013 to 19th January 2013	17-24	450	35	415	182	233	Balipara – Bongaigaon II	
		08-17' 00-17	240		205	205	0		
	20th January 2013 to	23-24	450	35	415	182	233		
	31st January 2013	17-23	450		415	186	229		
	1st January 2013 to	00-17	600	100	500		500		
	15th January 2013	23-24 17-23	300	100	200	0	200		
		00-08							
NER-ER#	16th January 2013 to	23-24	600	100	500	0	500	Revised due to Shutdown of 400 kV	
1,221,221,	19th January 2013	08-17'	100		200	_	200	Balipara – Bongaigaon II	
		17-23 00-17	300		200				
	20th January 2013 to 31st January 2013	23-24	600	100	500	0	500		
	51st January 2015	17-23	300		200		200		
S1-S2	1st January 2013 to	00-24	5500	200	5300	4000	1300		
	31st January 2013	00-24	3300	200	3300	4000	1300		
Import of Punjab	1st January 2013 to 31st January 2013	00-24	5400	300	5100	3243	1857		
Import TTC	-					LTA IMTO			
for DD &	1st January 2013 to 31st January 2013	00-24	980	0	980	LTA and MTO.			
DNH	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	
		18-22	7500		7300		900	scheduling power on long term basis in the zone.	
		00-08'	8000		7800		1400		
	5th January 2013	08-17'	7500	200	7300	6400	900	1. Revised due to Commissioning of	
		17-23'	8000	200	7800	0400	1400	400 kV Raipur-Wardha D/C with	
		23-24	7500		7300		900	40% Series Compensation at Wardha end.	
W3 zone	6th January 2013 to	00-17' 23-24	7500	200	7300	6400	900	2. Shutdown of 765 kV Seoni-Wardha ckt-1 and Seoni-Bina from 05.01.13 to 07.01.13.	
Injection #	7th January 2013	17-23'	8000	200	7800	6400	1400	05.01.15 to 07.01.15.	
	04.1 2012	00-17,	8000	200	7800	6400	1400		
	8th January 2013	23-24 17-23	8500	200	8300	6400	1900		
		00-08	8000		7800		1400		
	9th January 2013	08-17'	7500	200	7300	6400	900		
	, ,	17-23	8000		7800		1400	Revised due to shutdown of 765 kV	
		23-24 00-17	7500 7500		7300 7300		900 900	Seoni-Wardha I from 09.01.13 to	
	10.1 I 20.12	17-19	8000	200	7800	6400	1400	10.01.13	
	10th January 2013	19-23	8500	200	8300	6400	1900		
	11th January 2013 to	23-24 00-17,	8000 8000		7800 7800		1400 1400		
	31st January 2013	23-24		200		6400			
		17-23	8500		8300		1900		

National Load Despatch Centre Total Transfer Capability for January 2013

Issue Date: 14/01/2013 Issue Time: 1230 hrs Revision No.11

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
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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 l
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 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

¹⁾ ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam
2) ^SI 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

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									
	1st January 2013 to 3rd January 2013	00-17 23-24 17-23	4050	500	3550 3550	2550 2550	1000	LTA revised due to commisioning of CGPL unit-3	
NR	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 31st January 2013	00-17 23-24 17-23	4050	500	3550 3550	2550 2550	1000 1000		
	1st January 2013 to 15th January 2013	00-17 23-24 17-23	450 450	35	415 415	182 186	233		
NER#	16th January 2013 to 19th January 2013	00-08 17-24 08-17'	450 240	35	415	182	233	Revised due to Shutdown of 400 kV Balipara – Bongaigaon II	
	20th January 2013 to 31st January 2013	00-17 23-24 17-23	450 450	35	415	182	233	Dongargaon II	
WR		17 23	430		413	100	22)		
	1st January 2013 to 7th January 2013	00-05 10-19 05-10	1830	0	1830	1162	668		
	8th January 2013	19-24 00-05 17-19	1950*	0	1950*		788* 668	Revised due to shutdown of	
		05-07' 19-24 07-10'	1950* 1750*		1950* 1750*	1162	788* 588*	400 kV Baripada-Kharagpur- Kolaghat.	
	9th January 2013 to 12th January 2013	10-17' 00-05	1750 1830	- 0	1750 1830		588		
		10-19 05-10 19-24	1950*		1950*	1162	788*		
SR#	13th January 2013	00-05 05-19' 19-24	1830 1170 1950*	0	1830 1170 1950*	1162	668 8 788*	Revised due to shutdown of HVDC Talcher-Kolar Pole 1	
	14th Januray 2013	00-05 05-19' 19-24	1830 0 1950*	0	1830 0 1950*	1162	668 0 788*	Revised due to shutdown of HVDC Talcher-Kolar Pole 2	
	15th January 2013	00-05 16-19 07-16' 05-07	1830 1750 1950*	0	1830 1750 1950*	1162	668 588 788*	Revised due to shutdown of 400 KV Kolaghat - Baripada	
	16th January 2013-31st	19-24 00-05 10-19	1830	0	1830	1162	668		
	January 2013	05-10 19-24	1950*		1950*	1162	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	
EK-NEK	31st January 2013	17-23	2700		2350	1397	953	
NR	1st January 2013 to 31st January 2013	00-24	2300	500	1800	286	1514	
	1st January 2013 to 15th January 2013	00-17 23-24	600	100	500	0	500	
		17-23	300		200		200	
NIED#	16th January 2013 to	00-08 23-24	600	100	500	0	500	Revised due to Shutdown of
NER#	19th January 2013	08-17'	100		0		0	400 kV Balipara –
		17-23	300		200		200	Bongaigaon II
	20th January 2013 to	00-17 23-24	600	100	500	0	500	
	31st January 2013	17-23	300		200		200	
WR								
WK								
SR	1st January 2013 to 31st January 2013	00-17 23-24	1700	0	1700	197	1503	
	515t sandary 2015	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 l
		(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 + ER-NER	Export	(n-1) contingency of 400 kV Farakka-Malda*

ASSUMPTIONS IN BASECASE

		Lo	ad	Generation		
S.No.	Name of State/Area	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	(
10	ISGS			15860	10570	
	Total NR	36970	31430	33400	27470	
				00100		
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			0		
7	Bhutan	60	60		4400	
8	ISGS	110	110	1400	1400	
	Total ER	12070	40970	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	•	330	200	9930	7560	
6	Goa Daman and Diu	220				
		-	160			
7	Dadra and Nagar Haveli	530	240	40000	4470	
8	ISGS			13260	11700	
	Total WR	37070	28760	42260	33500	
	001171177117711771					
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	
٧	NORTH-EASTERN REGION					
1	Manipur	100	60	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	(
8	ISGS	0	0	820	420	
	Total NER	1720	1080	1320	820	
	Total All India	120690	99080	123860	10220	