

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

Issue Date:03/12/2012

Issue Time: 1300 hrs

Revision No. 3

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	800	200	600	0	600	
		23-24			700		700	
ER-NR	1st January 2013 to 31st January 2013	00-17	2350	300	2050	1770	280	DVC LTA figures to NR included
		23-24				1770	280	
WR-ER	1st January 2012 to 31st January 2012	00-24	1400	300	1100	0	1100	
ER-WR	1st January 2012 to 31st January 2012	00-24	1000	250	750	728	22	
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 31st January 2013	00-05	730	0	730	170	560	
		10-19	750		750		580	
SR-ER	1st January 2012 to 31st January 2012	00-17	700	0	700	197	503	
		23-24	700		700		503	
ER-NER	1st January 2013 to 31st January 2013	00-17	450	35	415	182	233	
		23-24	450		415	186	229	
NER-ER	1st January 2013 to 31st January 2013	00-17	600	100	500	0	500	
		23-24	300		200		200	
S1-S2	1st January 2013 to 31st January 2013	00-24	5800	200	5600	4400	1200	
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 31st January 2013	00-18,	7000	200	6800	6400	400	6400 MW corresponds to maximum effective LTA from W3. Export Margin from W3 would vary as per the maintenance schedule of generators in the zone.
		22-24	7500		7300		900	

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

## Limiting Constraints

Corridor	Constraint
<b>NR-WR</b>	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
<b>WR-NR</b>	(n-1) contingency of 400 kV Bina-Gwalior
<b>NR-ER</b>	(n-1) contingency of 400 kV Pusauli-Biharsharif
<b>ER-NR</b>	(n-1) contingency of 400 kV Farakka-Malda
<b>WR-ER</b>	(n-1) contingency of 400 kV Farakka-Malda*
<b>ER-WR</b>	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
<b>WR-SR</b>	High loading of 400 kV Raipur-Bhadrawati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore*
<b>SR-WR</b>	Bhadrawati HVDC B/B link capacity
<b>ER-SR</b>	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area (n-1) contingency of 400 kV Rourkela-Talcher*
<b>SR-ER</b>	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
<b>ER-NER</b>	(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
<b>NER-ER</b>	(n-1) contingency of 400 kV Binaguri-Bongaigaon High loading of 132 kV LTPS - Mariani*
<b>S1-S2</b>	(n-1) contingency of 400 kV Hosur-Salem
<b>Import of Punjab</b>	(n-1) contingency of ICT at Moga
<b>W3 zone export TTC</b>	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni

\*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 31st January 2013	00-17	4050	500	3550	2550	1000	LTA revised due to commissioning of CGPL unit-3
		23-24			3550			
NER	1st January 2013 to 31st January 2013	00-17	450	35	415	182	233	
		23-24			415			186
WR								
SR	1st January 2013 to 31st January 2013	00-05	1730	0	1730	931	799	
		10-19			1730		819	
		05-10	1750		1750			
		19-24						

### 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	2700	350	2350	1395	955	
		23-24	2700		2350			1397
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	300		200		200	
WR								
SR	1st January 2013 to 31st January 2013	00-17	1700	0	1700	197	1503	
		23-24	1700		1700		1503	
		17-23						

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400 kV Bina-Gwalior*
	<b>Export</b>	(n-1) contingency of 400 kV Pusauli-Biharsharif
<b>NER</b>	<b>Import</b>	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*
	<b>Export</b>	High loading of 132 kV LTPS - Marian (n-1) contingency of 400 kV Binaguri-Bongaigaon*
<b>SR</b>	<b>Import</b>	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
	<b>Export</b>	(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
<b>ER-NR + ER-NER</b>	<b>Export</b>	(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>