

**National Load Despatch Centre  
Total Transfer Capability for October 2012**

Issue Date: 23/10/2012

Issue Time: 1700 hrs

Revision No. 14

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 October 2012 to 31st October 2012	00-24	1500	200	1300	286	1014		
WR-NR	6th October 2012 to 31st October 2012	00-24	1700	200	1500	520	980		
NR-ER	1st October 2012 to 31st October 2012	00-17, 23-24	800	200	600	0	600		
		17-23	900		700		700		
ER-NR#	24th October 2012	00-24	4000	300	3700	1158	2542	Shut down of 400 kV Kahalgaon-Biharshariff -III & IV	
	25th October 2012	00-07	4000	300	3700	1158	2542		
		07-24'	2050		1750		592		
	26th October 2012 to 30th October 2012	00-24	2050	300	1750	1158	592		
	31st October 2012	00-20	2050	300	1750	1158	592		
20-24		4000	3700		2542				
WR-ER	1st October 2012 to 31st October 2012	00-24	1400	300	1100	0	1100		
ER-WR	1st October 2012 to 31st October 2012	00-24	900	250	650	650	0		
WR-SR	2nd October 2012 to 10th October 2012	00-24	1000	0	1000	992	8		
	11th October 2012 to 31st October 2012	00-24	900		900	900	0		
SR-WR	1st October 2012 to 31st October 2012	00-24	1000	0	1000	0	1000		
ER-SR	9th October 2012 to 17th October 2012	00-05, 10-19	500	0	500	262	238		
		05-10, 19-24	500*		500*		238*		
	18th October 2012 to 31st October 2012	00-05, 10-19	500	0	500	262	238		
		05-10, 19-24	750*		750*		488*		
SR-ER	1st October 2012 to 31st October 2012	00-17 23-24	800	0	800	197	603		
		17-23	900		900		703		
ER-NER#	24th October 2012 to 25th October 2012	00-17 23-24	550	35	515	161	354		
		17-23	510		475		166		309
	26th October 2012 to 29th October 2012	00-10', 16-17, 23-24	550	35	515	175	340	Shutdown of 400 kV Balipara – Bongaigaon D/C	
		10-16'	210		175		0**		
		17-23	510		475		166		309
	30th October 2012 to 31st October 2012	00-17 23-24	550	35	515	161	354		
		17-23	510		475		166	309	
	NER-ER#	24th October 2012 to 25th October 2012	00-17 23-24	550	100	450	0	450	
			17-23	340		240		240	
00-10', 16-17, 23-24			550	100		450		0	
10-16'		60	0		0				
17-23		340	240		240				
30th October 2012 to 31st October 2012		00-17 23-24	550	100	450	0	450		
		17-23	340		240		240		
		00-17 23-24	550		100		450	0	450
17-23		340	240	240					
S1-S2	1st October 2012 to 31st October 2012	00-24	5000	100	4900	3400	1500		
Import of Punjab	1st October 2012 to 31st October 2012	00-24	5400	300	5100	3243	1857		
Import TTC for DD&DNH	1st October 2012 to 31st October 2012	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			

<b>W3 zone export TTC#</b>	1st October 2012 to 31st October 2012	00-24	7000	200	6800	6100	700	6100 MW corresponds to maximum effective LTA from W3. Export Margin from W3 would vary as per the maintenance schedule of generators in the zone.
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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 400kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1) contingency of 400 kV Kahalgaon-Biharsharif
WR-ER	(n-1) contingency of 400 kV Maithon-Kahalgaon* Highloading of 220kV Korba(E)-Raigarh
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	(n-1) contingency of Chandrapur-Parli
ER-SR	(n-1) contingency of 400 kV Vijaywada-Nellore* (n-1) contingency of Rourkela-Talcher* Low Voltage in Chennai Area
SR-ER	(n-1) contingency of 400 kV Maithon-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	(n-1) contingency of 400 kV Binaguri-Bongaigaon* High Loading of 220 kV BTPS-Agia High loading of 132 kV BTPS – Dhaligaon D/C & 132 kV Nongkhor – Deothang S/C (during S/D) (n-1) contingency of 400/220 kV 315 MVA ICT at Misa*
NER-ER	(n-1) contingency of 400 kV Purnea-Muzaffarpur* (n-1) contingency of 400 kV Balipara-Bongaigaon-I High loading of 132 kV LTTPS – Mariani S/C* High loading of 132 kV Kahelipara – Amingaon (during Shutdown)
S1-S2	(n-1) contingency of 400 kV Hosur-Salem
W3 Zone Export TTC	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni
**	1. During the period of shutdown of 400 kV Balipara – Bongaigaon D/C, 132 kV BTPS – Dhaligaon – Barnagar – Rangia – Kahelipara (both circuits ) considered in loop. However, this loop may be uncertain. 2. Also during the period of shutdown of 400 kV Balipara – Bongaigaon D/C, entire system of Bhutan from 132 kV Salakati – Kurichu – Deothang – Motonga – Rangia considered connected.

\*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>	24th October 2012	00-24	5700	300	5400	1158	4242	Shut down of 400 kV Kahalgaon-Biharshariff -III & IV
	25th October 2012	00-07	5700	300	5400	1158	4242	
		07-24'	3750		3450		2292	
	26th October 2012 to 30th October 2012	00-24	3750	300	3450	1158	2292	
31st October 2012	00-20	3750	300	3450	1158	2292		
	20-24	5700		5400		4242		
<b>NER#</b>	24th October 2012 to 25th October 2012	00-17	550	35	515	161	354	Shutdown of 400 kV Balipara–Bongaigaon D/C
		23-24			475	166	309	
	26th October 2012 to 29th October 2012	00-10',	550	35	515	161	354	
		16-17,			175	14		
		23-24			475	166	309	
	30th October 2012 to 31st October 2012	10-16'	210	35	515	161	354	
17-23		510	475		166	309		
<b>WR</b>								
<b>SR</b>	11th October 2012 to 17th October 2012	00-05,	1400	0	1400	1162	238	
		10-19			1400*		1400*	238*
	18th October 2012 to 30th October 2012	00-05,	1400	0	1400	1162	238	
		10-19			1650*		1650*	488*

\* 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
<b>ER</b>								
<b>NR</b>	1st October 2012 to 30th October 2012	00-24	2300	500	1800	286	1514	
<b>NER#</b>	24th October 2012 to 25th October 2012	00-17	550	100	450	0	450	Shutdown of 400 kV Balipara – Bongaigaon D/C
		23-24						
	26th October 2012 to 29th October 2012	17-23	340	100	450	0	450	
		00-10'	550					
		16-17,	60					
		23-24	340					
30th October 2012 to 31st October 2012	10-16'	60	100	450	0	450		
	17-23	340						
		00-17	550	100	450	0	450	
		23-24						
		17-23	340	100	450	0	450	
<b>WR</b>								
<b>SR</b>	1st October 2012 to 30th October 2012	00-17	1800	0	1800	197	1603	
		23-24						
		17-23	1900		1900		1703	

### Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Purnea Muzaffarpur* (n-1) contingency of 400 kV Kahalgaon-Biharsharif (n-1) contingency of 400kV Bina-Gwalior
	<b>Export</b>	(n-1) contingency of 400 kV Kahalgaon-Maithon
<b>NER</b>	<b>Import</b>	High Loading of 220 kV BTPS-Agia High Loading of 220 kV Balipara-Samaguri (n-1) contingency of 400/220 kV 315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon*
	<b>Export</b>	High loading of 132 kV BTPS – Dhaligaon D/C & 132 kV Nongkhor – Deothang S/C (during S/D) High loading of 132 kV LTPS – Mariani S/C* (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Purnea-Muzaffarpur* High loading of 132 kV Kahelipara – Amingaon (during Shutdown)
<b>SR</b>	<b>Import</b>	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 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

## 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	7551	7100	3016	2877
2	Haryana	5901	5400	3293	3293
3	Rajasthan	6100	5900	3552	3480
4	Delhi	4565	4200	1396	1396
5	Uttar Pradesh	10050	10300	5166	4832
6	Jammu & Kashmir	1900	1802	560	609
7	Uttarakhand	1600	1230	899	906
8	Himachal Pradesh	1030	970	745	745
9	Chandigarh	282	231	0	0
10	ISGS			18226	16779
	<b>Total NR</b>	<b>38979</b>	<b>37133</b>	<b>36853</b>	<b>34918</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6250	4930	4617	3942
2	Jharkhand	900	700	390	390
3	Orissa	3300	2400	2707	2092
4	Bihar	1650	1300	130	130
5	Damodar Valley Corporation	2200	1900	1551	1551
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			6236	6236
	<b>Total ER</b>	<b>14470</b>	<b>11400</b>	<b>17031</b>	<b>15741</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2608	1983	2147	1716
2	Madhya Pradesh	5223	4166	3238	2739
3	Maharashtra	15700	12000	12016	8352
4	Gujarat	9618	6440	11085	6815
5	Goa	300	197		
6	Daman and Diu	225	177		
7	Dadra and Nagar Haveli	439	477		
8	ISGS			11971	10595
	<b>Total WR</b>	<b>34112</b>	<b>25439</b>	<b>40457</b>	<b>30217</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10715	9050	7729	5978
2	Tamil Nadu	10100	8700	4423	3439
3	Karnataka	7200	5700	4701	3300
4	Kerala	2950	2300	1343	896
5	Pondy	325	250	0	0
6	Goa	80	80	0	0
7	ISGS			9700	8800
	<b>Total SR</b>	<b>31370</b>	<b>26080</b>	<b>27896</b>	<b>22413</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	115	92	0	0
2	Meghalaya	258	180	120	70
3	Mizoram	70	40	0	0
4	Nagaland	70	60	15	15
5	Assam	950	824	240	220
6	Tripura	180	100	105	100
7	Arunachal Pradesh	124	83	0	0
8	ISGS			1292	682
	<b>Total NER</b>	<b>1767</b>	<b>1379</b>	<b>1772</b>	<b>1087</b>
	<b>Total All India</b>	<b>120698</b>	<b>101431</b>	<b>124009</b>	<b>104376</b>