

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

Issue Date: 28/07/2012

Issue Time: 1100 hrs

Revision No. 0

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 November 2012 to 30th November 2012	00-24	1900	200	1700	286	1414	
WR-NR	1st November 2012 to 30th November 2012	00-24	2400	200	2200	260	1940	
NR-ER	1st November 2012 to 30th November 2012	00-17	800	200	600	0	600	
		23-24	900		700		700	
ER-NR	1st November 2012 to 30th November 2012	00-17	3500	300	3200	1031	2169	
		23-24					2125	
WR-ER	1st November 2012 to 30th November 2012	00-24	700	300	400	0	400	
ER-WR	1st November 2012 to 30th November 2012	00-24	1000	300	700	650	50	
WR-SR	1st November 2012 to 30th November 2012	00-24	800	0	800	761	39	
SR-WR	1st November 2012 to 30th November 2012	00-24	1000	0	1000	0	1000	
ER-SR	1st November 2012 to 30th November 2012	00-05 10-19	530	0	530	170	360	
		05-10 19-24	800		800		630	
SR-ER	1st November 2012 to 30th November 2012	00-17	800	0	800	197	603	
		23-24	900		900		703	
ER-NER	1st November 2012 to 30th November 2012	00-17	500	35	465	156	309	
		23-24	500		465	159	306	
NER-ER	1st November 2012 to 30th November 2012	00-17	700	100	600	0	600	
		23-24	330		230		230	
S1-S2	1st November 2012 to 30th November 2012	00-10	5800	100	5700	3800	1900	
		10-24'	5500		5400		1600	
JPL Complex	1st November 2012 to 30th November 2012	00-24	1030	0	1030	0	1030	
Import TTC for DD&DNH	1st November 2012 to 30th November 2012	00-24	980	0	980	LTA and MTOA as per ex-pp schedule		

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

## Limiting Constraints

Corridor	Constraint
<b>NR-WR</b>	(n-1) contingency of 400kV Bina(PG)-Bina(MP)
<b>WR-NR</b>	Low voltage at Gwalior on outage of 400 kV Bina-Gwalior
<b>NR-ER</b>	(n-1) contingency of 400 kV Pusauli-Biharsharif
<b>ER-NR</b>	(n-1-1) contingency of 400 kV Farakka-Malda
<b>WR-ER</b>	(n-1) contingency of 400 kV Maithon-Kahalgaon* Highloading of 220kV Korba(E)-Raigarh
<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 Maithon-Kahalgaon* (n-1) contingency of 400 kV Kadappa-Kolar and Neyveli- 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 Purnea-Muzaffarpur 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*
<b>S1-S2</b>	(n-1) contingency of 400 kV Hosur-Salem

\*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 November 2012 to 30th November 2012	00-17 23-24	5900	500	5400	1291	4109	
		17-23			5400	1335	4065	
NER	1st November 2012 to 30th November 2012	00-17 23-24	500	35	465	156	309	
		17-23	500		465	159	306	
WR								
SR	1st November 2012 to 30th November 2012	00-05 10-19	1330	0	1330	931	399	
		05-10 19-24	1600		1600		669	

**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	1st November 2012 to 30th November 2012	00-24	2300	500	1800	286	1514	
NER	1st November 2012 to 30th November 2012	00-17 23-24	700	100	600	0	600	
		17-23	330		230		230	
WR								
SR	1st November 2012 to 30th November 2012	00-17 23-24	1800	0	1800	148	1652	
		17-23	1900		1900		1752	

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1-1) contingency of 400 kV Farakka-Malda* Low voltage at Gwalior on outage of 400 kV 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 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 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 Purnea-Muzaffarpur*
<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

## 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	5213	4425	2078	2022
2	Haryana	5107	4336	3432	3432
3	Rajasthan	7437	6423	4076	3941
4	Delhi	3980	3379	1330	1330
5	Uttar Pradesh	10049	8632	5085	4959
6	Jammu & Kashmir	1798	1526	345	243
7	Uttarakhand	1338	1005	555	335
8	Himachal Pradesh	1030	874	582	284
9	Chandigarh	250	150	0	0
10	ISGS			15413	11010
	<b>Total NR</b>	<b>36201</b>	<b>30751</b>	<b>32896</b>	<b>27555</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	2767	2138	2518	1985
2	Madhya Pradesh	7653	6229	3643	2802
3	Maharashtra	14659	11906	13413	9454
4	Gujarat	9908	7881	9933	7564
5	Goa	327	198		
6	Daman and Diu	218	157		
7	Dadra and Nagar Haveli	535	241		
8	ISGS			12120	11496
	<b>Total WR</b>	<b>36066</b>	<b>28748</b>	<b>41627</b>	<b>33301</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10200	8960	7729	5978
2	Tamil Nadu	9900	8566	4423	3439
3	Karnataka	7300	5612	4701	3300
4	Kerala	3300	2166	1343	896
5	Pondy	300	275	0	0
6	Goa	80	80	0	0
7	ISGS			9700	8800
	<b>Total SR</b>	<b>31080</b>	<b>25659</b>	<b>27896</b>	<b>22413</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	105	100	0	0
2	Meghalaya	260	190	120	70
3	Mizoram	70	40	0	0
4	Nagaland	70	60	15	15
5	Assam	870	824	220	220
6	Tripura	170	100	105	100
7	Arunachal Pradesh	124	83	0	0
8	ISGS			1092	482
	<b>Total NER</b>	<b>1669</b>	<b>1397</b>	<b>1552</b>	<b>887</b>
	<b>Total All India</b>	<b>119486</b>	<b>97955</b>	<b>121002</b>	<b>99897</b>