

**National Load Despatch Centre  
Total Transfer Capability for October 2011**

Issue Date: 23/09/2011

Issue Time: 1500 hrs

Revision No. 1

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 2011 to 31st October 2011	00-24	1500	200	1300	55	1245	
WR-NR	1st October 2011 to 31st October 2011	00-24	1900	200	1700	0	1700	
NR-ER	1st October 2011 to 31st October 2011	00-24	850	200	650	0	650	
ER-NR	1st October 2011 to 31st October 2011	00-17	4000	300	3700	1049	2651	
		23-24					2751	
WR-ER	1st October 2011 to 31st October 2011	00-17	800	300	500	0	500	
		23-24	900		600		600	
ER-WR	1st October 2011 to 31st October 2011	00-24	1100	300	800	433	367	
WR-SR	1st October 2011 to 31st October 2011	00-24	800	0	800	0	800	
SR-WR	1st October 2011 to 31st October 2011	00-24	850	0	850	0	850	
ER-SR#	1st October 2011 to 28th October 2011	00-05	470	0	470	113	357	HVDC Talcher Kolar power carrying capacity has been made 2500 MW during 05-10 and 19-24 hrs from 23rd to 31st September 2011
		10-19	970		970		857	
	29th October 2011 to 31st October 2011	00-05		113	0	113	113	
		10-19	540	540		427		
SR-ER	1st October 2011 to 28th October 2011	00-17	700	0	700	148	552	
		23-24	800		800		652	
	29th October 2011 to 31st October 2011	00-17		700	0	700	197	
		23-24	800	800		603		
ER-NER	1st October 2011 to 31st October 2011	00-17	500	50	450	195	255	
		23-24					216	
NER-ER	1st October 2011 to 31st October 2011	00-24	500	100	400	0	400	
S1-S2	1st October 2011 to 31st October 2011	00-24	4900	100	4800	3100	1700	

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>	Over loading of 400kV Bina-Nagda D/C and 400kV Khandwa-Dhule D/C
<b>WR-NR</b>	(n-1) contingency of 400kV Bina-Gwalior one circuit leading to over loading of the other circuit of 400 kV Bina-Gwalior and 400kV Soja-Zerda S/C
<b>NR-ER</b>	(n-1) contingency of 400 kV Kahalgaon-Maithon
<b>ER-NR</b>	(n-1) contingency of 400 kV Farakka-Kahalgaon
<b>WR-ER</b>	(n-1) contingency of 400 kV Farakka-Kahalgaon (n-1) contingency of 400 kV Maithon-Kahalgaon
<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 Maithon-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>	(n-1) contingency of Chandrapur-Parli
<b>ER-SR</b>	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area*
<b>SR-ER</b>	(n-1) contingency of 400 kV Farakka-Kahalgaon and Maithon-Kahalgaon (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
<b>ER-NER</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
<b>NER-ER</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
<b>SI-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 October 2011 to 31st October 2011	00-17 23-24	5600	500	5100	1049	4051	
		17-23	5700		5200		4151	
NER	1st October 2011 to 31st October 2011	00-17 23-24	500	50	450	195	255	
		17-23				216	234	
WR								
SR#	1st October 2011 to 28th October 2011	00-05 10-19	1270	0	1270	113	1157	HVDC Talcher Kolar power carrying capacity has been made 2500 MW during 05-10 and 19-24 hrs from 23rd to 31st September 2011
		05-10 19-24	1770		1770		1657	
	29th October 2011 to 31st October 2011	00-05 10-19	913	0	913	113	800	
		05-10 19-24	1340		1340		1227	

### 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 October 2011 to 31st October 2011	00-24	2300	500	1800	55	1745	
NER	1st October 2011 to 31st October 2011	00-24	500	100	400	0	400	
WR								
SR	1st October 2011 to 28th October 2011	00-17 23-24	1550	0	1550	148	1402	
		17-23	1650		1650		1502	
	29th October 2011 to 31st October 2011	00-17 23-24	1550	0	1550	197	1353	
		17-23	1650		1650		1453	

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Kahalgaon
	<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
	<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*
<b>SR</b>	<b>Import</b>	High loading of 400 kV Raipur-Bhadravati T/C and Bhilai-Bhadrawati S/C 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 Farakka-Kahalgaon and Maithon Kahalgaon (n-1) contingency of 400 kV Kadappa-Kolar and neyveli- Sriperumbudur

## ASSUMPTIONS IN BASECASE

Sl.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	5859	5509	2239	2421
2	Haryana	4744	4334	2552	2552
3	Rajasthan	5856	5419	3573	3573
4	Delhi	3805	3400	1356	1356
5	Uttar Pradesh	8487	8757	3457	3583
6	Jammu & Kashmir	1600	1200	611	591
7	Uttarakhand	1200	1030	795	774
8	Himachal Pradesh	1030	970	523	484
9	Chandigarh	254	180	0	0
10	ISGS			14860	11330
	<b>Total NR</b>	<b>32835</b>	<b>30799</b>	<b>29965</b>	<b>26664</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6000	4900	4417	3742
2	Jharkhand	900	800	390	390
3	Orissa	3300	2350	2507	2092
4	Bihar	1600	1400	130	130
5	Damodar Valley Corporation	2100	1800	1551	1551
6	Sikkim	60	60	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			5575	5575
	<b>Total ER</b>	<b>14070</b>	<b>11420</b>	<b>15970</b>	<b>14880</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2700	2150	3380	3290
2	Madhya Pradesh	6257	4646	3880	3300
3	Maharashtra	14660	12200	12320	10480
4	Gujarat	9210	8650	9990	8180
5	Goa	395	250	0	0
6	Daman and Diu	223	212	0	0
7	Dadra and Nagar Haveli	564	480	0	0
8	ISGS			8612	7721
	<b>Total WR</b>	<b>34009</b>	<b>28588</b>	<b>38182</b>	<b>32971</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10265	9360	8360	6800
2	Tamil Nadu	9785	8250	5290	4480
3	Karnataka	6360	4530	4410	3390
4	Kerala	2550	2010	1980	1230
5	Pondy	220	210		
6	Goa	75	75		
7	ISGS			7660	6850
	<b>Total SR</b>	<b>29255</b>	<b>24435</b>	<b>27700</b>	<b>22750</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	99	70	0	0
2	Meghalaya	248	173	120	70
3	Mizoram	70	51	0	0
4	Nagaland	80	61	15	15
5	Assam	944	714	280	262
6	Tripura	169	102	105	100
7	Arunachal Pradesh	80	61	0	0
8	ISGS			1136	995
	<b>Total NER</b>	<b>1690</b>	<b>1232</b>	<b>1656</b>	<b>1442</b>
	<b>Total All India</b>	<b>111859</b>	<b>96474</b>	<b>113473</b>	<b>98707</b>