National Load Despatch Centre
Total Transfer Capability for October 2011

Issue Date: 29/09/2011 Issue Time: 1400 hrs Revision No. 2

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	1900	200	1700	55	1645	Revised due to Change in load generation scenario in western region
WR-NR#	1st October 2011 to 31st October 2011	00-24	2100	200	1900	0	1900	Revised due to Change in load generation scenario in western region
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 23-24	4000	300	3700	1049	2651	
		17-23	4100		3800		2751	
WR-ER#	1st October 2011 to 31st October 2011	00-24	1200	300	900	0	900	Revised as 220 kV Raigarh-Budhipadar is kept out to control overloading of 220 kV Budhipadar-Tarkera D/C
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 10-19	470	0	470	113	357	
		05-10 19-24	970		970		857	
	29th October 2011 to 31st October 2011	00-05 10-19	113	0	113	113	0	
		05-10 19-24	540		540		427	
SR-ER#	1st October 2011 to 28th October 2011	00-17 23-24	800	0	800	148	652	
		17-23	900		900		752	
	29th October 2011 to 31st October 2011	00-17 23-24	800	0	800	197	603	
		17-23	900		900		703	
ER-NER	1st October 2011 to 31st October 2011	00-17 23-24	500	50	450	195	255	
		17-23				216	234	
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
NR-WR	(n-1) contingency of 400kV Bina(PG)- Bina (MP)
WR-NR	(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
NR-ER	(n-1) contingency of 400 kV Kahalgaon-Maithon
ER-NR	(n-1) contingency of 400 kV Farakka-Kahalgaon
WR-ER	(n-1) contingency of 400 kV Farakka-Kahalgaon (n-1) contingency of 400 kV Maithon-Kahalgaon
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 Maithon-Jamshedpur
WR-SR	High loading of 400 kV Raipur-Bhadravati 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* Low Voltage in Chennai Area*
SR-ER	(n-1) contingency of 400 kV Farakka-Kahalgaon and Maithon-Kahalgaon (n-1) contingency of 400 kV Kadappa-Kolar and Neyvelli- Sriperumbudur
ER-NER	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
NER-ER	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
S1-S2	(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	5800	500	5300	1049	4251	Revised due to change in load generation pattern in western region
		17-23	5900		5400		4351	
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	
		05-10 19-24	1770		1770		1657	
	29th October 2011 to 31st October 2011	00-05 10-19	913	0	913	113	800	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	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	1650	0	1650	148	1502	
		17-23	1750		1750		1602	
	29th October 2011 to 31st October 2011	00-17 23-24	1650	0	1650	197	1453	
		17-23	1750		1750		1553	

Limiting Constraints

NR	**Import**	(n-1) contingency of 400 kV Farakka-Kahalgaon
	Export	(n-1) contingency of 400 kV Kahalgaon-Maithon
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
	Export	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*
SR	**Import**	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
	Export	(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 neyvelli- Sriperumbudur

ASSUMPTIONS IN BASECASE

Sl.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	**NORTHERN REGION**				
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
	Total NR	**32835**	**30799**	**29965**	**26664**
II	**EASTERN REGION**				
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
	Total ER	**14070**	**11420**	**15970**	**14880**
III	**WESTERN REGION**				
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
	Total WR	**34009**	**28588**	**38182**	**32971**
IV	**SOUTHERN REGION**				
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
	Total SR	**29255**	**24435**	**27700**	**22750**
V	**NORTH-EASTERN REGION**				
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
	Total NER	**1690**	**1232**	**1656**	**1442**
	Total All India	**111859**	**96474**	**113473**	**98707**