National Load Despatch Centre
Total Transfer Capability for November 2012

Issue Date: 20/11/2012 Issue Time: 1200 hrs Revision No. 11

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 8th November 2012	00-24	1700	200	1500	520	980	
	9th November 2012 to 10th November 2012	00-07 19-24	1700	200	1500	520	980	
		07-19'	1350		1150		630	
	11th November 2012 to 30th November 2012	00-24	1700	200	1500	520	980	
NR-ER	1st November 2012 to 30th November 2012	00-17 23-24	800	200	600	0	600	
		17-23	900		700		700	
ER-NR	1st November 2012	00-17 23-24	2800	300	2500	1031	1469	
		17-23				1075	1425	
	2nd November 2012 to 4th November 2012	00-06	2800	300	2500	1031	1469	
		06-17'	2700		2400	1031	1369	
		17-20'	2700		2400	1075	1325	
		20-23	2800		2500	1075	1425	
		23-24	2800		2500	1031	1469	
	5th November 2012 to 7th November 2012	00-06	2800	300	2500	1031	1469	
		06-17'	2700		2400	1031	1369	
		17-20'	2700		2400	1075	1325	
		20-23	2800		2500	1075	1425	
		23-24	2800		2500	1031	1469	
	8th November 2012 to 15th November 2012	00-17 23-24	2800	300	2500	1772	728	
		17-23				1817	683	
	16th November 2012	00-08	2400	300	2100	1772	328	Change in load generation conditions and shutdown of 400 kV Barh-Balia D/C
		08-18 21-24	2300		2000	1772	228	
		18-21'	2550		2250	1817	433	
	17th November 2012 to 25th November 2012	00-18 21-24	2300	300	2000	1772	228	
		18-21	2550		2250	1817	433	
	26th November 2012 to 30th November 2012	00-18 21-24	2400	300	2100	1772	328	
		18-21	2650		2350	1817	533	
WR-ER	1st November 2012 to 30th November 2012	00-24	1100	300	800	0	800	Sterlite considered in WR in bid area W3 for which separate export TTC is indicated
ER-WR	1st November 2012 to 30th November 2012	00-24	900	250	650	650	0	
WR-SR	1st November 2012 to 30th November 2012	00-24	1000	0	1000	992	8	
SR-WR	1st November 2012 to 30th November 2012	00-24	1000	0	1000	0	1000	
ER-SR	1st November 2012 to 10th November 2012	00-05 10-19	530	0	530	170	360	
		05-10 19-24	800*		800*		630*	
	11th November 2012 to 14th November 2012	00-05 10-19	630	0	630	170	460	
		05-10 19-24	800*		800*		630*	
	15th November 2012	00-05 18-19	630	0	630	170	460	
		05-08 19-24	800*		800*		630*	
		08-18'	500		500		330	
	16th November 2012 to 30th November 2012	00-05 10-19	630	0	630	170	460	
		05-10 19-24	800*		800*		630*	
SR-ER	1st November 2012 to 30th November 2012	00-17 23-24	800	0	800	197	603	
		17-23	900		900		703	

ER-NER	1st November 2012 to 15th November 2012	00-18 21-24	400	35	365	156	209	
		18-21	400		365	159	206	
	15th November 2012 to 30th November 2012	00-18 21-24	400	35	365	156	209	Change in load generation balance
		18-21	450		415	159	256	
NER-ER#	1st November 2012 to 25th November 2012	00-17 23-24	700	100	600	0	600	
		17-23	330		230		230	
	26th November 2012 to 30th November 2012	00-08' 23-24	700	100	600	0	600	shutdown of 220 kV BTPS – Salakati D/C
		08-17'	490		390		390	
		17-23	330		230		230	
S1-S2	1st November 2012 to 30th November 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 November 2012 to 30th November 2012	00-24	980	0	980	LTA and MTOA as per ex-pp schedule		
W3 zone Injection	1st November 2012 to 2nd November 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.
	3rd November 2012 to 30th November 2012	00-18 22-24	7000	200	6800	6100	700	
		18-22	7500		7300		1200	

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 400 kV Bina-Gwalior
NR-ER	(n-1) contingency of 400 kV Pusauli-Biharsharif
ER-NR	(n-1-1) contingency of 400 kV Farakka-Malda
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-Bhadravati T/C and Bhilai-Bhadrawati S/C (n-1) contingency of 400 kV Vijaywada-Nellore*
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	(n-1) contingency of 400 kV Vijaywada-Nellore* Low Voltage in Chennai Area* (n-1) contingency of 400 kV Rourkela-Talcher*
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 Farakka-Malda * 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
NER-ER	(n-1) contingency of 400 kV Purnea-Muzaffarpur 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 Balipara – Bongaigaon II during the period of 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

*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	00-17 23-24	4500	500	4000	1551	2449	
		17-23			4000	1595	2405	
	2nd November 2012 to 4th November 2012	00-06	4500	500	4000	1551	2449	
		06-17'	4400		3900	1551	2349	
		17-20'	4400		3900	1595	2305	
		20-23	4500		4000	1595	2405	
		23-24	4500		4000	1551	2449	
	5th November 2012 to 7th November 2012	00-06	4500	500	4000	1551	2449	
		06-17'	4400		3900	1551	2349	
		17-20'	4400		3900	1595	2305	
		20-23	4500		4000	1595	2405	
		23-24	4500		4000	1551	2449	
	8th November 2012	00-17 23-24	4500	500	4000	1551	2449	
		17-23			4000	1595	2405	
	9th November 2012 to 10th November 2012	00-07 19-24	4500	500	4000	1595	2405	Revised due to shutdown of HVDC Rihand Dadri Bipole
		07-19'	4150		3650		2055	
	11th November 2012 to 15th November 2012	00-17 23-24	4500	500	4000	2292	1708	DVC LTA figure included
		17-23			4000	2337	1663	
	16th November 2012	00-08	4100	500	3600	2292	1308	Change in load generation conditions and shutdown of 400 kV Barh-Balia D/C
		08-18 21-24	4000		3500	2292	1208	
		18-21'	4250		3750	2337	1413	
	17th November 2012 to 25th November 2012	00-18 21-24	4000	500	3500	2292	1208	
		18-21	4250		3750	2337	1413	
	26th November 2012 to 30th November 2012	00-18 21-24	4100	500	3600	2292	1308	
		18-21	4350		3850	2337	1513	
NER#	1st November 2012 to 15th November 2012	00-18 21-24	400	35	365	156	209	
		18-21	400		365	159	206	
	15th November 2012 to 30th November 2012	00-18 21-24	400	35	365	156	209	Change in load generation balance
		18-21	450		415	159	256	
WR								
SR	1st November 2012 to 10th November 2012	00-05 10-19	1530	0	1530	1162	368	
		05-10 19-24	1800*		1800*		638*	
	11th November 2012 to 14th November 2012	00-05 10-19	1630	0	1630	1162	468	
		05-10 19-24	1800*		1800*		638*	
	15th November 2012	00-05 18-19	1630	0	1630	1162	468	
		05-08 19-24	1800*		1800*		638*	
		08-18'	1500		1500		338	
	16th November 2012 to 30th November 2012	00-05 10-19	1630	0	1630	1162	468	
		05-10 19-24	1800*		1800*		638*	

* 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
ER-NR+ ER-NER	1st November 2012 to 30th November 2012	00-18 21-24	2700	350	2350	1928	422	
		18-21	3000		2650	1976	674	
NR	1st November 2012 to 30th November 2012	00-24	2300	500	1800	286	1514	
NER#	1st November 2012 to 25th November 2012	00-17 23-24	700	100	600	0	600	
		17-23	330		230		230	
	26th November 2012 to 30th November 2012	00-08' 23-24	700	100	600	0	600	shutdown of 220 kV BTPS – Salakati D/C
		08-17'	490		390		390	
		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

NR	**Import**	(n-1-1) contingency of 400 kV Farakka-Malda*
		(n-1) contingency of 400 kV Bina-Gwalior*
	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*
		(n-1) contingency of 400 kV Farakka-Malda*
	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
		(n-1) contingency of 400 kV Purnea-Muzaffarpur*
		(n-1) contingency of 400 kV Balipara – Bongaigaon II during the period of shutdown
SR	**Import**	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
	Export	(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)
I	**NORTHERN REGION**				
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
	Total NR	**36201**	**30751**	**32896**	**27555**
II	**EASTERN REGION**				
1	West Bengal	5996	3306	4222	3160
2	Jharkhand	1077	729	498	449
3	Orissa	2957	2200	1167	827
4	Bihar	1673	1454	0	0
5	Damodar Valley Corporation	2282	1823	3307	2907
6	Sikkim	81	57	0	0
7	Bhutan	110	110	1400	1400
8	ISGS			6360	5670
	Total ER	**14177**	**9679**	**16954**	**14413**
III	**WESTERN REGION**				
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
	Total WR	**36066**	**28748**	**41627**	**33301**
IV	**SOUTHERN REGION**				
1	Andhra Pradesh	10200	8960	7429	5678
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
	Total SR	**31080**	**25659**	**27596**	**22113**
V	**NORTH-EASTERN REGION**				
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
	Total NER	**1669**	**1397**	**1552**	**887**
	Total All India	**119193**	**96234**	**120625**	**98269**