

National Load Despatch Centre
Total Transfer Capability for November 2012

Issue Date: 22/11/2012

Issue Time: 1000 hrs

Revision No. 12

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						630															
	11th November 2012 to 30th November 2012	00-24	1700	200	1500	780	720	LTA Revised due to COD of CGPL Mundra unit-3.																
NR-ER	1st November 2012 to 30th November 2012	00-17 23-24 17-23	800 900	200	600 700	0	600 700																	
ER-NR	1st November 2012	00-17 23-24 17-23	2800						300	2500	1031 1075	1469 1425	Change in load generation conditions and shutdown of 400 kV Barh-Balia D/C											
		2nd November 2012 to 4th November 2012		00-06 06-17' 17-20' 20-23 23-24	2800 2700 2700 2800 2800	300	2500	1031 1031 1075 1075 1031						1469 1369 1325 1425 1469										
				5th November 2012 to 7th November 2012	00-06 06-17' 17-20' 20-23 23-24										2800 2700 2700 2800 2800	300	2500	1031 1031 1075 1075 1031	1469 1369 1325 1425 1469					
	8th November 2012 to 15th November 2012		00-17 23-24 17-23		2800				300	2500	1772 1817	728 683												
			16th November 2012												00-08 08-18 21-24 18-21'					2400 2300 2550	300	2100 2000 2250	1772 1772 1817	328 228 433
															17th November 2012 to 25th November 2012					00-18 21-24 18-21				
	26th November 2012 to 30th November 2012	00-18 21-24 18-21			2400 2650	300	2100 2350	1772 1817	328 533															
	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	Change in load generation balance
		18-21	400		365	159	206	
	15th November 2012 to 30th November 2012	00-18 21-24	400	35	365	156	209	
		18-21	450		415	159	256	
NER-ER	1st November 2012 to 25th November 2012	00-17 23-24	700	100	600	0	600	shutdown of 220 kV BTPS – Salakati D/C
		17-23	330		230		230	
		00-08' 23-24	700		600		0	
	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	
Import of Punjab			1st October 2012 to 31st October 2012	00-24	5400	300	5100	3243
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.
	3rd November 2012 to 30th November 2012	00-18 22-24	7000	200	6800	6100	700	Export Margin from W3 would vary as per the maintenance schedule of generators in the zone.
		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-Bhadrawati 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	4500	500	4000	1551	2449	
		23-24			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	
	8th November 2012	00-17	4500	500	4000	1551	2449	
		23-24			4000	1595	2405	
	9th November 2012 to 10th November 2012	00-07	4500	500	4000	1595	2405	Revised due to shutdown of HVDC Rihand Dadri Bipole
		19-24	4150		3650	2055		
	11th November 2012 to 15th November 2012	00-17	4500	500	4000	2292	1708	DVC LTA figure included
		23-24			4000	2337	1663	
	16th November 2012	00-08	4100	500	3600	2292	1308	Change in load generation conditions and shutdown of 400 kV Barb-Balia D/C
		08-18	4000		3500	2292	1208	
		21-24	4250		3750	2337	1413	
17th November 2012 to 25th November 2012	00-18	4000	500	3500	2552	948		
	21-24	4250		3750	2597	1153		
26th November 2012 to 30th November 2012	00-18	4100	500	3600	2552	1048		
	21-24	4350		3850	2597	1253		
NER	1st November 2012 to 15th November 2012	00-18	400	35	365	156	209	
		21-24	400		365	159	206	
	18-21	400						
15th November 2012 to 30th November 2012	00-18	400	35	365	156	209	Change in load generation balance	
	21-24	450		415	159	256		
WR								
SR	1st November 2012 to 10th November 2012	00-05	1530	0	1530	1162	368	
		10-19	1800*		1800*		638*	
	11th November 2012 to 14th November 2012	00-05	1630	0	1630	1162	468	
		10-19	1800*		1800*		638*	
	15th November 2012	00-05	1630	0	1630	1162	468	
		18-19	1800*		1800*		638*	
		05-08	1500		1500		338	
	16th November 2012 to 30th November 2012	00-05	1630	0	1630	1162	468	
		10-19	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	2700	350	2350	1928	422	
		21-24	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	700	100	600	0	600	
		23-24	330		230	230		
	26th November 2012 to 30th November 2012	00-08'	700	100	600	0	600	shutdown of 220 kV BTPS – Salakati D/C
		23-24	490		390	390		
		17-23	330		230	230		
WR								
SR	1st November 2012 to 30th November 2012	00-17	1800	0	1800	148	1652	
		23-24	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-Bhadrawati 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