

**National Load Despatch Centre
Total Transfer Capability for November 2013**

Issue Date: 04/11/2013

Issue Time: 1200 hrs

Revision No. 8

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)	Changes in TTC w.r.t. Last Revision	Comments			
NR-WR*	1st November 2013 to 30th November 2013	00-24	2500	500	2000	286	1714					
WR-NR ¹	1st November 2013 to 30th November 2013	00-17	3700	500	3200	3181	19					
		23-24										
		17-23	3700		3200	3181	19					
NR-ER*	1st November 2013 to 30th November 2013	00-17	1000	200	800	0	800					
		23-24			900		900					
		17-23	1100									
ER-NR	1st November 2013	00-19	3000	300	2700	2370	330					
		19-24	3600	300	3300	2370	930					
	2nd November 2013 to 30th November 2013	00-17	3600	300	3300	2370	930					
		23-24										
		17-23	3600	300	3300	2370	930					
W3-ER	1st November 2013 to 30th November 2013	00-24	1800	300	1500	0	1500					
ER-W3	1st November 2013 to 30th November 2013	00-24	1000	300	700	700	0					
WR-SR	1st November 2013 to 30th November 2013	00-24	1000	0	1000	1000	0					
SR-WR*	1st November 2013 to 30th November 2013	00-24	1000	0	1000	0	1000					
ER-SR	1st November 2013 to 30th November 2013	00-05	750	0	750	612	138					
		10-19										
		05-10	1250	200	1050		438					
		19-24										
SR-ER*	1st November 2013 to 30th November 2013	00-17	800	0	800	197	603					
		23-24			900	703						
		17-23	900									
ER-NER	1st November 2013	00-17	450	35	415	230	185					
		23-24			515		285					
		17-23	550									
	2nd November 2013 to 4th November 2013	00-17	500	35	465	230	235					
		23-24			565		335					
	5th November 2013 to 10th November 2013	00-08	500	35	465	230	235					
		23-24			245		15			-220	Revised due to Shutdown of one ckt of 400 kV Balipara-Bongoigaon	
		16-17	280									
	11th November 2013 to 30th November 2013	08-16'	600		565		335					
		17-23										
	NER-ER	1st November 2013 to 4th November 2013	00-17	550	100	450	0			450		
			23-24			420				420		
17-23		520										
5th November 2013 to 10th November 2013		00-08	550	100		450		0	450			
		16-17	110			10			-440	Revised due to Shutdown of one ckt of 400 kV Balipara-Bongoigaon		
23-24				420		420						
10th November 2013 to 30th November 2013	00-17	550	100	450	0	450						
23-24				420	420							
17-23	520											
S1-S2	1st November 2013 to 30th November 2013	00-24	5600	400	5200	4800	400					
Import of Punjab	1st November 2013 to 30th November 2013	00-24	5600	300	5300	3800	1500					
Import TTC for DD & DNH	1st November 2013 to 30th November 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule						
W3 zone Injection	1st November 2013 to 10th November 2013	00-17	8500	200	8300	7074	1226					
		23-24			8800		1726					
	11th November 2013 to 30th November 2013	00-17	9000	200	8800	7074	1726					
		23-24			9300		2226					
17-23	9500											

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

- 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 :
 - 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, k) KSK Mahanadi, L)DB Power, m) KWPC

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1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhimmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
W3-ER	(n-1) contingency of 400kV Sterlite-Rourkela S/C
ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*
WR-SR	(n-1) contingency of 400kV Raigarh-Sterlite
WR-SR	Bhadrawati HVDC B/B link capacity
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka
SR-ER	
ER-NER	(n-1) contingency of 400 kV Farakka-Malda*
ER-NER	(n-1) contingency of 400/220 kV.315 MVA ICT at Misa
NER-ER	(n-1) contingency of 400 kV Binaguri-Bongaigaon*
NER-ER	(n-1) contingency of 400 kV Balipara-Bongaigaon
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1-l) contingency of 400 kV Raipur-Bhadrawati D/C section

*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)	Changes in TTC w.r.t. Last Revision	Comments	
ER										
NR ¹	1st November 2013	00-19	6700	800	5900	5551	349	-600		
		19-24	7300		6500		949			
	2nd November 2013 to 30th November 2013	00-17 23-24	7300	800	6500	5551	949			
		17-23	7300		6500		949			
NER	1st November 2013	00-17 23-24	450	50	400	230	170			
		17-23	550		500		270			
	2nd November 2013 to 4th November 2013	00-17 23-24	500	50	450	230	220			
		17-23	600		550		320			
	5th November 2013 to 10th November 2013	00-08 23-24 16-17	500	35	465	230	235			
		08-16'	280		245		15		-220	Revised due to Shutdown of one ckt of 400 kV Balipara-Bongoigaon
		17-23	600		565		335			
	11th November 2013 to 30th November 2013	00-17 23-24	450	50	400	230	170			
		17-23	450		400		170			
	WR									
SR	1st November 2013 to 30th November 2013	00-05 10-19	1750	0	1750	1612	138			
		05-10 19-24	2250	200	2050		438			

I. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

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)	Changes in TTC w.r.t. Last Revision	Comments	
NR*	1st November 2013 to 30th November 2013	00-17 23-24	3500	700	2800	286	2514			
		17-23	3600		2900		2614			
NER	1st November 2013 to 30th November 2013	00-17 23-24	550	100	450	0	450			
		17-23	520		420		420			
	5th November 2013 to 10th November 2013	00-08 16-17 23-24	550	100	450	0	450			
		08-16'	110		10		10		-440	Revised due to Shutdown of one ckt of 400 kV Balipara-Bongoigaon
		17-23	520		420		420			
	10th November 2013 to 30th November 2013	00-17 23-24	550	100	450	0	450			
17-23		520	420		420					
WR										
SR*	1st November 2013 to 30th November 2013	00-17 23-24	1800	0	1800	197	1603			
		17-23	1900		1900		1703			

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Faarakka-Malda* High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400 kV Faarakka-Malda*
	Export	(n-1) contingency of 400 kV Binaguri-Bongaigaon*
SR	Import	Bhadrawati HVDC B/B link capacity (n-1) contingency of 400 kV Rourkela-Talcher
	Export	

*Primary constraints

ASSUMPTIONS IN BASECASE

Month : November '13

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	7000	4924	2546	2351
2	Haryana	5559	4660	2770	2770
3	Rajasthan	7051	6539	4002	4002
4	Delhi	3974	3720	1514	1514
5	Uttar Pradesh	11000	10322	6008	5756
6	Jammu & Kashmir	1876	1185	584	429
7	Uttarakhand	1543	902	713	340
8	Himachal Pradesh	1327	730	444	523
9	Chandigarh	224	118	0	0
10	ISGS/IPPs			16740	11303
	Total NR	39554	33100	35321	28988
II	EASTERN REGION				
1	West Bengal	4900	4500	4837	3944
2	Jharkhand	1110	770	561	561
3	Orissa	3500	2200	2430	1699
4	Bihar	1820	1320	0	0
5	Damodar Valley Corporation	2600	2035	3439	3039
6	Sikkim	40	40		
7	Bhutan	110	110	648	648
8	ISGS/IPPs	131	241	6494	6762
	Total ER	14211	11216	18409	16653
III	WESTERN REGION				
1	Chattisgarh	3181	2462	1804	1065
2	Madhya Pradesh	7637	5600	9905	7817
3	Maharashtra	15506	12500	4366	2928
4	Gujarat	11119	10121	11221	8374
5	Goa	432	281	0	0
6	Daman and Diu	245	208	0	0
7	Dadra and Nagar Haveli	604	471	0	0
8	ISGS/IPPs	590	590	16763	15466
	Total WR	39314	32233	44059	35650

IV	SOUTHERN REGION				
1	Andhra Pradesh	10900	9350	7204	6066
2	Tamil Nadu	11300	8617	6433	4962
3	Karnataka	7800	6499	5213	3549
4	Kerala	3225	2234	1917	760
5	Pondy	320	244	0	0
6	Goa	80	80	0	0
7	ISGS/IPPs			11130	10168
	Total SR	33625	27024	31897	25505
V	NORTH-EASTERN REGION				
1	Manipur	130	91	0	0
2	Meghalaya	280	196	110	95
3	Mizoram	85	60	8	4
4	Nagaland	120	84	20	10
5	Assam	1350	970	220	180
6	Tripura	260	130	100	100
7	Arunachal Pradesh	130	91	0	0
8	ISGS/IPPs			1020	735
	Total NER	2355	1622	1478	1124
	Total All India	129059	105195	131164	107920