

**National Load Despatch Centre
Total Transfer Capability for January 2014**

Issue Date: 04/11/2013

Issue Time: 1200 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)	Changes in TTC w.r.t. Last Revision	Comments
NR-WR *	1st January 2014 to 31st January 2014	00-24	2500	500	2000	286	1714		
WR-NR ¹	1st January 2014 to 31st January 2014	00-17 23-24	3700 ^Δ	500	3200 ^Δ	3181 ^Δ	19		
		17-23	3700 ^Δ		3200 ^Δ	3181 ^Δ	19		
NR-ER	1st January 2014 to 31st January 2014	00-17 23-24	1000	200	800	200	600		Revised considering the LTA/MTOA on NR-ER Path
		17-23	1100		900		700		
ER-NR *	1st January 2014 to 31st January 2014	00-17 23-24	2600	300	2300	2118	182		
		17-23					182		
W3-ER	1st January 2014 to 31st January 2014	00-24	1800	300	1500	0	1500		
ER-W3	1st January 2014 to 31st January 2014	00-24	1000	300	700	700	0		
WR-SR	1st January 2014 to 31st January 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st January 2014 to 31st January 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st January 2014 to 31st January 2014	00-05 10-19	1100	0	1100	657	443		
		05-10 19-24	1100		1100		443		
		00-17 23-24	1100		1100		197	903	
SR-ER *	1st January 2014 to 31st January 2014	17-23	1100		1100		903		
ER-NER	1st January 2014 to 31st January 2014	00-17 23-24	450	50	400	230	170		
		17-23	450		400		170		
NER-ER	1st January 2014 to 31st January 2014	00-17 23-24	570	100	470	0	470		
		17-23	570		470		470		
S1-S2	1st January 2014 to 31st January 2014	00-24	6200	400	5800	5400	400		
Import of Punjab	1st January 2014 to 31st January 2014	00-24	5600	300	5300	3800	1500		
Import TTC for DD & DNH	1st January 2014 to 31st January 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st January 2014 to 31st January 2014	00-17 23-24	9000	200	8800	7630	1170		
		17-23	9500		9300		1670		

* 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) KWPCCL

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Δ. includes 1500 MW on the dedicated Mundra-Mohindergarh HVDC bipole of M/s Adani Power Limited which is scheduled separately from the generation at stage-III of APL Mundra (3*660 MW).

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

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High loading 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 Sterilte-Rourkela S/C
ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (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	(n-1) contingency of 400 kV Rourkela-Talcher
SR-ER	
ER-NER	(n-1) contingency of 400 kV Farakka-Malda*
NER-ER	N-1 contingency of 400/220 kV, 2x315 MVA ICTs at Misa
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-1-1) 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 January 2014 to 31st January 2014	00-17 23-24	6300 ^Δ	800	5500 ^Δ	5299 ^Δ	201		
		17-23	6300 ^Δ		5500 ^Δ		201		
NER	1st January 2014 to 31st January 2014	00-17 23-24	450	50	400	230	170		
		17-23	450		400		170		
WR									
SR	1st January 2014 to 31st January 2014	00-05 10-19	2100	0	2100	1657	443		
		05-10 19-24	2100		2100		443		

Δ. includes 1500 MW on the dedicated Mundra-Mohindergarh HVDC bipole of M/s Adani Power Limited which is scheduled separately from the generation at stage-III of APL Mundra (3*660 MW).

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 January 2014 to 31st January 2014	00-17 23-24	3500	700	2800	486	2314		Revised considering the LTA/MTOA on NR-ER Path
		17-23	3600		2900		2414		
NER	1st January 2014 to 31st January 2014	00-17 23-24	570	100	470	0	470		
		17-23	570		470		470		
WR									
SR*	1st January 2014 to 31st January 2014	00-17 23-24	2100	0	2100	197	1903		
		17-23	2100		2100		1903		

* 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 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 Farakka-Malda*
	Export	N-1 contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	Import	Bhadrawati HVDC B/B link capacity (n-1) contingency of 400 kV Rourkela-Talcher
	Export	

*Primary constraints

ASSUMPTIONS IN BASECASE

Month : January '14

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