

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

Issue Date: 28/08/2013

Issue Time: 1700 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)	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 <sup>1</sup>	1st November 2013 to 30th November 2013	00-17 23-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		
		17-23	5500 <sup>Δ</sup>		5000 <sup>Δ</sup>	2937 <sup>Δ</sup>	2063		
NR-ER*	1st November 2013 to 30th November 2013	00-17 23-24	1000	200	800	0	800		
		17-23	1100		900		900		
ER-NR	1st November 2013 to 30th November 2013	00-17 23-24	3600	300	3300	2370	930		
		17-23					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 10-19	800	0	800	612	188		
		05-10 19-24	800		800		188		
SR-ER*	1st November 2013 to 30th November 2013	00-17 23-24	800	0	800	197	603		
		17-23	900		900		703		
ER-NER	1st November 2013 to 30th November 2013	00-17 23-24	450	50	400	230	170		
		17-23	450		400		170		
NER-ER	1st November 2013 to 30th November 2013	00-17 23-24	550	100	450	0	450		
		17-23	520		420		420		
S1-S2	1st November 2013 to 30th November 2013	00-24	6000	400	5600	5300	300		
Import of Punjab	1st November 2013 to 30th November 2013	00-24	5600	300	5300	3475	1825		
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 30th November 2013	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 Cum 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)JDB Power, m) KWPCCL

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Δ. includes 1500 MW on the dedicated Mundra-Mohinderghar 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. (A) WR-NR Total Transfer capability will be reduced to 5200 MW in case of outage of any one of the following sections:**

- 765 kV Agra-Jhatikara
- 765 kV Agra-Meerut
- One of the 765/400 kV 1500 MVA ICT at Agra

**(B) 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	(n-1) contingency of 765 kV Agra-Jhatikara
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* (n-1) contingency of 400/220 kV,315 MVA ICT at Misa
NER-ER	(n-1) contingency of 400 kV Binaguri-Bongaigaon* (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-1-1) 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 <sup>1</sup>	1st November 2013 to 30th November 2013	00-17 23-24	9300 <sup>Δ</sup>	1000	8300 <sup>Δ</sup>	5307 <sup>Δ</sup>	2993		
		17-23	9100 <sup>Δ</sup>		8100 <sup>Δ</sup>		2793		
NER	1st 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	1800	0	1800	1612	188		
		05-10 19-24	1800		1800		188		

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).

**1. (A) WR-NR Total Transfer capability will be reduced to 5200 MW in case of outage of any one of the following sections:**

- 765 kV Agra-Jhatikara
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- One of the 765/400 kV 1500 MVA ICT at Agra

**(B) 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		
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 Cum First Serve).

## Limiting Constraints

NR	<b>Import</b>	(n-1) contingency of 400 kV Faarakka-Malda* (n-1) contingency of 765 kV Agra-Jhatikara
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusaui
NER	<b>Import</b>	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400/220 kV,315 MVA ICT at Misa
	<b>Export</b>	(n-1) contingency of 400 kV Binaguri-Bongaigaon* (n-1) contingency of 400 kV Balipara-Bongaigaon
SR	<b>Import</b>	Bhadrawati HVDC B/B link capacity (n-1) contingency of 400 kV Rourkela-Talcher
	<b>Export</b>	

\*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)
<b>I</b>	<b>NORTHERN REGION</b>				
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
	<b>Total NR</b>	<b>39554</b>	<b>33100</b>	<b>35321</b>	<b>28988</b>
<b>II</b>	<b>EASTERN REGION</b>				
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
	<b>Total ER</b>	<b>14211</b>	<b>11216</b>	<b>18409</b>	<b>16653</b>
<b>III</b>	<b>WESTERN REGION</b>				
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
	<b>Total WR</b>	<b>39314</b>	<b>32233</b>	<b>44059</b>	<b>35650</b>

<b>IV</b>	<b>SOUTHERN REGION</b>				
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
	<b>Total SR</b>	<b>33625</b>	<b>27024</b>	<b>31897</b>	<b>25505</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
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
	<b>Total NER</b>	<b>2355</b>	<b>1622</b>	<b>1478</b>	<b>1124</b>
	<b>Total All India</b>	<b>129059</b>	<b>105195</b>	<b>131164</b>	<b>107920</b>