

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

Issue Date: 28/09/2013

Issue Time: 2200 hrs

Revision No. 4

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 October 2013 to 31st October 2013	00-24	2500	500	2000	286	1714		
WR-NR <sup>1</sup>	1st October 2013 to 31st October 2013	00-17 23-24	3700 <sup>Δ</sup>	500	3200 <sup>Δ</sup>	3181 <sup>Δ</sup>	19	-2000	Revised considering SPS setting of 1000 MW on each circuit of 765 kV Agra-Gwalior
		17-23	3700 <sup>Δ</sup>		3200 <sup>Δ</sup>	3181 <sup>Δ</sup>	19	-1800	
NR-ER*	1st October 2013 to 31st October 2013	00-17 23-24	1000	200	800	0	800		
		17-23	1100		900		900		
ER-NR	1st October 2013 to 31st October 2013	00-17 23-24	4000	300	3700	2189	1511		
		17-23					1511		
W3-ER	1st October 2013 to 31st October 2013	00-24	1800	300	1500	0	1500		
ER-W3	1st October 2013 to 31st October 2013	00-24	1000	300	700	700	0		
WR-SR	1st October 2013 to 31st October 2013	00-24	1000	0	1000	1000	0		
SR-WR*	1st October 2013 to 31st October 2013	00-24	1000	0	1000	0	1000		
ER-SR	1st October 2013 to 31st October 2013	00-05 10-19	830	0	830	612	218		
		05-10 19-24	830		830		218		
SR-ER*	1st October 2013 to 31st October 2013	00-17 23-24	800	0	800	197	603		
		17-23	900		900		703		
ER-NER	1st October 2013	00-08 23-24	680	35	645	230	415	210	Revised considering the present load generation balance and due to shutdown of 220 kV BTPS-Salakati D/C
		08-17'	480		445		215	10	
		17-23	590		555		325	120	
	2nd October 2013 to 31st October 2013	00-17 23-24	680	35	645	230	415	210	Revised considering the present load generation balance
17-23		590	555		325		120		
NER-ER	1st October 2013 to 31st October 2013	00-17 23-24	500	100	400	0	400		
		17-23	440		340		340		
S1-S2	1st October 2013 to 31st October 2013	00-24	6000	400	5600	5300	300		
Import of Punjab	1st October 2013 to 31st October 2013	00-24	5600	300	5300	3800	1500		Increase in share of Punjab from Sasan, DSTPS, Parbati-III
Import TTC for DD & DNH	1st October 2013 to 31st October 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st October 2013 to 31st October 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 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)KWPCCL, M) DB Power

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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).

**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
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
<b>WR-NR</b>	High loading of 765 kV Agra-Gwalior
<b>NR-ER</b>	(n-1) contingency of 400 kV Allahabad-Pusauli
<b>ER-NR</b>	(n-1) contingency of 400 kV Farakka-Malda
<b>W3-ER</b>	(n-1) contingency of 400kV Sterilte-Rourkela S/C
<b>ER-W3</b>	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
<b>WR-SR</b>	Bhadrawati HVDC B/B link capacity
<b>SR-WR</b>	Bhadrawati HVDC B/B link capacity
<b>ER-SR</b>	(n-1) contingency of 400 kV Rourkela-Talcher
<b>SR-ER</b>	
<b>ER-NER</b>	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 400/220 kV,315 MVA ICT at Misa
<b>NER-ER</b>	(n-1) contingency of 400 kV Binaguri-Bongaigaon* Insufficient generating resources in NER
<b>S1-S2</b>	(n-1) contingency of 400 kV Kolar-Hosur D/C line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
<b>Import of Punjab</b>	(n-1) contingency of ICT at Patiala/Moga
<b>W3 zone Injection</b>	(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>	00-17 23-24	7700 <sup>Δ</sup>	1000	6700 <sup>Δ</sup>	5370 <sup>Δ</sup>	1330	3330	-2000	Revised considering SPS setting of 1000 MW on each circuit of 765 kV Agra-Gwalior
	17-23	7700 <sup>Δ</sup>		6700 <sup>Δ</sup>			1330	3130	
NER	1st October 2013	00-08 23-24	680	35	645	230	415	210	Revised considering the present load generation balance and due to shutdown of 220 kV BTPS-Salakati D/C
		08-17'	480		445		215	10	
		17-23	590		555		325	120	
	2nd October 2013 to 31st October 2013	00-17 23-24	680	35	645	230	415	210	Revised considering the present load generation balance
		17-23	590		555		325	120	
WR									
SR	1st October 2013 to 31st October 2013	00-05 10-19	1830	0	1830	1612	218		
		05-10 19-24	1830		1830		218		

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. 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 October 2013 to 31st October 2013	00-17 23-24	3500	700	2800	286	2514		
		17-23	3600		2900		2614		
NER	1st October 2013 to 31st October 2013	00-17 23-24	500	100	400	0	400		
		17-23	440		340		340		
WR									
SR	1st October 2013 to 31st October 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* (n-1) contingency of 765/400 kV ICT at 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* (n-1) contingency of 400/220 kV,315 MVA ICT at Misa
	Export	(n-1) contingency of 400 kV Binaguri-Bongaigaon* Insufficient generating resources in NER
SR	Import	Bhadrawati HVDC B/B link capacity (n-1) contingency of 400 kV Jeypore-Gazuwaka
	Export	

\*Primary constraints

<b>Revision No</b>	<b>Reason for Revision</b>	<b>Corridor Affected</b>
1	Revised due to Allocation of 150 MW additional power to J&K.	WR-NR
2	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).	NR-WR, NR-ER, SR-WR, SR-ER
3	Revised due to commissioning of Sasan UMPP Unit 30	WR-NR
	Increase in share of Punjab from Sasan, DSTPS, Parbati-III	Import of Punjab
4	Revised considering SPS setting of 1000 MW on each circuit of 765 kV Agra-Gwalior	WR-NR
	Revised considering present load generation balance and shutdown of 220 kV BTPS-Salakati D/C	ER-NER

# ASSUMPTIONS IN BASECASE

Month : October '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>