

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

Issue Date: 22/07/2013

Issue Time: 1300 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 August 2013 to 31st August 2013	00-24	2500	500	2000	286	1714		Revised due to commissioning of 765 kV Agra-Jhatikara.
WR-NR <sup>1</sup>	1st August 2013 to 31st August 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		Revised due to Allocation of 150 MW additional power to J&K.
NR-ER	1st August 2013 to 31st August 2013	00-17	1000	200	800	0	800		
		23-24	1100		900		900		
ER-NR	1st August 2013 to 31st August 2013	00-17	4000	300	3700	2189	1511		
		23-24					1511		
W3-ER	1st August 2013 to 31st August 2013	00-24	1650	300	1350	0	1350		
ER-W3	1st August 2013 to 31st August 2013	00-24	1000	300	700	700	0		
WR-SR	1st August 2013 to 31st August 2013	00-24	1000	0	1000	1000	0		
SR-WR	1st August 2013 to 31st August 2013	00-24	1000	0	1000	0	1000		
ER-SR	1st August 2013 to 31st August 2013	00-05	1100	0	1100	612	488		
		10-19	1100		1100		488		
SR-ER	1st August 2013 to 25th August 2013	00-17	800	0	800	148	652		
		23-24	900		900		752		
	26th August 2013 to 31st August 2013	00-17	800	0	800	197	603		
		23-24	900		900		703		
ER-NER	1st August 2013 to 31st August 2013	00-17	580	35	545	230	315		
		23-24	600		565		335		
NER-ER	1st August 2013 to 31st August 2013	00-17	400	100	300	0	300		
		23-24	380		280		280		
S1-S2	1st August 2013 to 31st August 2013	00-24	5800	200	5600	5200	400		
Import of Punjab	1st August 2013 to 31st August 2013	00-24	5600	300	5300	3475	1825		Revised due to change in LTA/MTOA quantum.
Import TTC for DD & DNH	1st August 2013 to 31st August 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection #	1st August 2013 to 31st August 2013	00-17,	9000	200	8800	7074	1726		
		23-24	9500		9300		2226		

- 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 Pondichery  
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

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

- 765 kV Agra-Jhatikara
- One of the 765/400 kV 1500 MVA ICT at Agra
- 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>	(n-1) contingency of 765/400 kV ICT at Agra
<b>NR-ER</b>	(n-1) contingency of 400 kV Allahabad-Pusauli
<b>ER-NR</b>	(n-1) contingency of 400 kV Purnea-Muzaffarpur
<b>W3-ER</b>	(n-1) contingency of either 400 kV Mejia-Maithon or (n-1) contingency of 400 kV MPL -Maithon
<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 Rourkela-Raigarh
<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 400/220 kV,315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon
<b>NER-ER</b>	High loading of 132 kV LTPS – Mariani S/C 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> #	1st August 2013 to 31st August 2013	00-17	9700 <sup>Δ</sup>	1000	8700 <sup>Δ</sup>	5126 <sup>Δ</sup>	3574		Revised due to Allocation of 150 MW additional power to J&K.
		23-24			8700 <sup>Δ</sup>		3574		
NER	1st August 2013 to 31st August 2013	00-17	580	35	545	230	315		
		23-24	600		565		335		
WR									
SR	1st August 2013 to 31st August 2013	00-05	2100	0	2100	1612	488		
		10-19	2100		2100		488		

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 Agra-Jhatikara
- One of the 765/400 kV 1500 MVA ICT at Agra
- 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 August 2013 to 31st August 2013	00-17	3500	700	2800	286	2514		Revised due to commissioning of 765 kV Agra-Jhatikara.
		23-24	3600		2900		2614		
NER	1st August 2013 to 31st August 2013	00-17	400	100	300	0	300		
		23-24	380		280		280		
WR									
SR	1st August 2013 to 25th August 2013	00-17	1800	0	1800	148	1652		
		23-24	1900		1900		1752		
	26th August 2013 to 31st August 2013	00-17	1800	0	1800	197	1603		
		23-24	1900		1900		1703		

### Limiting Constraints

<b>NR</b>	<b>Import</b>	(n-1) contingency of 400 kV Purnea-Muzaffarpur* (n-1) contingency of 765/400 kV ICT at Agra
	<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-Pusauli
<b>NER</b>	<b>Import</b>	(n-1) contingency of 400/220 kV,315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon
	<b>Export</b>	High loading of 132 kV LTPS – Mariani S/C Insufficient generating resources in NER
<b>SR</b>	<b>Import</b>	Bhadrawati HVDC B/B link capacity (n-1) contingency of 400 kV Rourkela-Talcher*
	<b>Export</b>	Bhadrawati HVDC B/B link capacity

\*Primary constraints

## ASSUMPTIONS IN BASECASE

Month : August '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	7580	7125	2975	2975
2	Haryana	6580	7041	4175	4175
3	Rajasthan	6565	7090	3500	3500
4	Delhi	4444	3777	1385	1385
5	Uttar Pradesh	10215	11339	4950	4950
6	Jammu & Kashmir	1970	1300	625	625
7	Uttarakhand	1414	1456	570	570
8	Himachal Pradesh	1500	1455	900	900
9	Chandigarh	290	226	0	0
10	ISGS			19458	17980
	<b>Total NR</b>	<b>40558</b>	<b>40810</b>	<b>38538</b>	<b>37060</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6985	4760	4588	3914
2	Jharkhand	990	715	399	399
3	Orissa	3630	2750	2674	2266
4	Bihar	1870	1320	0	0
5	Damodar Valley Corporation	2475	2030	3035	3035
6	Sikkim	40	40	0	0
7	Bhutan	111	111	1416	1416
8	ISGS	21	21	6844	6844
	<b>Total ER</b>	<b>16122</b>	<b>11747</b>	<b>18956</b>	<b>17874</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	3121	2322	1556	2489
2	Madhya Pradesh	7309	4491	3251	2715
3	Maharashtra	14482	12600	10416	7062
4	Gujarat	10006	8523	8888	10552
5	Goa	383	245	0	0
6	Daman and Diu	233	220	0	0
7	Dadra and Nagar Haveli	566	545	0	0
8	ISGS/IPP	590	590	16854	10684
	<b>Total WR</b>	<b>36690</b>	<b>29536</b>	<b>40965</b>	<b>33502</b>
<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10174	8994	6432	5882
2	Tamil Nadu	11552	9274	7337	5117
3	Karnataka	7423	5911	4850	3881
4	Kerala	3398	2446	2116	1320
5	Pondy	314	244		
6	Goa	80	80		
7	ISGS/IPPs			9532	8891
	<b>Total SR</b>	<b>32941</b>	<b>26949</b>	<b>30267</b>	<b>25091</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Manipur	130	91	0	0
2	Meghalaya	280	196	142	119
3	Mizoram	90	63	10	8
4	Nagaland	120	84	24	20
5	Assam	1410	970	250	230
6	Tripura	250	175	100	95
7	Arunachal Pradesh	130	91	0	0
8	ISGS	0	0	1311	1154
	<b>Total NER</b>	<b>2410</b>	<b>1670</b>	<b>1837</b>	<b>1626</b>
	<b>Total All India</b>	<b>128721</b>	<b>110712</b>	<b>130563</b>	<b>115153</b>