

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

Issue Date: 22/08/2013

Issue Time: 1230 hrs

Revision No. 14

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 2nd August 2013	00-24	4900 <sup>Δ</sup>	500	4400 <sup>Δ</sup>	3437 <sup>Δ</sup>	963		Revised due to Shutdown of Rihand-Dadri Pole-I
	3rd August 2013 to 6th 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.
	7th August 2013	00-08 20-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		Revised due to shutdown of 220 kV Auraiya-Malanpur and Auraiya Mehgaon
		08-20'	5500 <sup>Δ</sup>	500	5000 <sup>Δ</sup>	2937 <sup>Δ</sup>	2063		
	8th August 2013 to 11th August 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		
	12th August 2013	00-08 20-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		Revised due to shutdown of 220 kV Auraiya-Malanpur and Auraiya Mehgaon
		08-20'	5500 <sup>Δ</sup>	500	5000 <sup>Δ</sup>	2937 <sup>Δ</sup>	2063		
	13th August 2013 to 18th August 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		
	19th August 2013	00-08 20-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		Revised due to shutdown of 765 kV Agra-Merrut
		08-20'	5200 <sup>Δ</sup>	500	4700 <sup>Δ</sup>	2937 <sup>Δ</sup>	1763		
	20th August 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		
	21st August 2013	00-08 20-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		Revised due to shutdown of 765 kV Agra-Merrut
		08-20'	5200 <sup>Δ</sup>	500	4700 <sup>Δ</sup>	2937 <sup>Δ</sup>	1763		
	22nd August 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		
23rd August 2013	00-07 20-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263		Revised due to shutdown of 220 kV Auraiya-Malanpur and Auraiya Mehgaon	
	07-20'	5500 <sup>Δ</sup>	500	5000 <sup>Δ</sup>	2937 <sup>Δ</sup>	2063			
24th August 2013 to 31st August 2013	00-24	5700 <sup>Δ</sup>	500	5200 <sup>Δ</sup>	2937 <sup>Δ</sup>	2263			
NR-ER	1st August 2013 to 31st August 2013	00-17 23-24	1000	200	800	0	800		
		17-23	1100		900		900		
ER-NR	1st August 2013 to 4th August 2013	00-17 23-24	4000	300	3700	2189	1511		
		17-23					1511		
	5th August 2013	00-09 18-24	4000	300	3700	2189	1511		
		09-18'	3600	300	3300	2189	1111		Revised due to shutdown of 400 kV Kahalgaon-Barh Ckt 1
	6th August 2013	00-24	4000	300	3700	2189	1511		
7th August 2013	00-10 18-24	4000	300	3700	2189	1511		Revised due to shutdown of 400 kV Purnea-Muzaffarpur Ckt-1	
	10-18'	3200		2900		711			
8th August 2013 to 31st August 2013	00-17 23-24	4000	300	3700	2189	1511			
	17-23					1511			
W3-ER	1st August 2013 to 18th August 2013	00-24	1650	300	1350	0	1350		
	19th August 2013	00-08"	1650	300	1350	0	1350		Revised due to Shutdown of 400 kV Raigarh-Jharsuguda-Rourkela ckt 2
		08-24'	1250		950		950		
	20th August 2013	00-19	1250	300	950	0	950		Revised due to Shutdown of 400 kV Raigarh-Jharsuguda-Rourkela ckt 2
		19-24	1650		1350		1350		
	21st August 2013	00-18	1250	300	950	0	950		
		18-24	1650		1350		1350		
	22nd August 2013	00-08'	1650	300	1350	0	1350		Revised due to Shutdown of 400 kV Jharsuguda-Rourkela ckt 1
		08-24'	1250		950		950	-400	
	23rd August 2013	00-18	1250	300	950	0	950		Revised due to Shutdown of 400 kV Jharsuguda-Rourkela ckt 1
18-24		1650	1350		1350				
24th August 2013 to 31st August 2013	00-24	1650	300	1350	0	1350			

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ER-W3	1st August 2013 to 31st August 2013	00-24	1000	300	700	700	0			
WR-SR	1st August 2013 to 6th August 2013	00-24	1000	0	1000	827	173		Margin revised due to Non-Utilization of MTOA by KSK Mahanadi as communicated vide KSK Mahanadi letter no. SRLDC, BLR/NRKN/1500101/1578 dated 27th July 2013.	
	7th August 2013	00-15 18-24	1000	0	1000	827	173		Revised due to shutdown of 400 kVRamagundam-Bhdrawati Ckt-2	
		15-18	850		850		23			
	8th August 2013 to 9th August 2013	00-24	1000	0	1000	827	173			
10th 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 5th August 2013	00-05 10-19	1100	0	1100	385	715		Margin revised due to Non-Utilization of MTOA by KSK Mahanadi as communicated vide KSK Mahanadi letter no. SRLDC, BLR/NRKN/1500101/1578 dated 27th July 2013.	
		05-10 19-24	1100		1100		715			
	6th August 2013	00-08 18-24	1100	0	1100	385	715		Revised due to emergency shutdown of 400 kV Talcher-Rourkela 2	
		08-18'	800		800		415			
	7th August 2013 to 9th August 2013	00-05 10-19	1100	0	1100	385	715		Margin revised due to Non-Utilization of MTOA by KSK Mahanadi as communicated vide KSK Mahanadi letter no. SRLDC, BLR/NRKN/1500101/1578 dated 27th July 2013.	
		05-10 19-24	1100		1100		715			
	10th August 2013 to 11th August 2013	00-05 10-19	1100	0	1100	612	488			
		05-10 19-24	1100		1100		488			
	12th August 2013 to 31st August 2013	00-05 10-19	600	0	600	612	0		Revised dueto all units of Revival of all units of Talcher stage-2.	
		05-10 19-24	1100		1100		488			
	SR-ER	1st August 2013 to 25th August 2013	00-17 23-24	800	0	800	148	652		
			17-23	900		900		752		
26th August 2013 to 31st August 2013		00-17 23-24	800	0	800	197	603			
		17-23	900		900		703			
ER-NER	1st August 2013 to 4th August 2013	00-17 23-24	580	35	545	230	315			
		17-23	600		565		335			
	5th August 2013	00-08 23-24	580	50	530	230	300		Revised due to shutdown of 400/220 kV ICT 2 at Misa S/S	
		08-17'	430		380		150			
		17-23	600		550		320			
	6th August 2013 to 21st August 2013	00-17 23-24	580	50	530	230	300			
		17-23	600		550		320			
		22nd August 2013 to 23rd August 2013	00-08 23-24		580		50	530		230
	08-17"	430	380	150	-130					
	17-23	600	550	320						
	24th August 2013 to 31st August 2013	00-17 23-24	580	50	530	230	300			
		17-23	600		550		320			

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NER-ER	1st August 2013 to 21st August 2013	00-17	400	100	300	0	300		
		23-24			280		280		
	22nd August 2013 to 23rd August 2013	00-08	400	100	300	0	300		
		23-24	400		300		300		
		08-17	380		280		280		
	24th 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 9th August 2013	00-17, 23-24	9000	200	8800	6674	2126		Margin revised due to Non-Utilization of MTOA by KSK Mahanadi as communicated vide KSK Mahanadi letter no. SRLDC, BLR/NRKN/1500101/1578 dated 27th July 2013.
		17-23	9500		9300		2626		
	10th August 2013 to 31st August 2013	00-17, 23-24	9000	200	8800	7074	1726		
		17-23	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 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

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 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
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	(n-1) contingency of 765/400 kV ICT at Agra
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
ER-NR	(n-1) contingency of 400 kV Purnea-Muzaffarpur
W3-ER	(n-1) contingency of either 400 kV Mejia-Maithon or (n-1) contingency of 400 kV MPL -Maithon
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 Rourkela-Raigarh
WR-SR	Bhadrawati HVDC B/B link capacity
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	(n-1) contingency of 220 kV Jayanagar - Jeypore and Talcher-Kolar HVDC Capacity
SR-ER	
ER-NER	(n-1) contingency of 400/220 kV,315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon
NER-ER	High loading of 132 kV LTPS – Mariani S/C Insufficient generating resources in NER
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
SR	1st August 2013 to 5th August 2013	00-05 10-19	2100	0	2100	1212	888		Margin revised due to Non-Utilization of MTOA by KSK Mahanadi as communicated vide KSK Mahanadi letter no. SRLDC, BLR/NRKN/1500101 /1578 dated 27th July 2013.
		05-10 19-24	2100		2100		888		
	6th August 2013	00-08 18-24	2100	0	2100	1212	888		Revised due to emergency shutdown of 400 kV Talcher-Rourkela 2
		08-18'	1800		1800		588		
	7th August 2013	00-15 18-24	2100	0	2100	1212	888		Revised due to shutdown of 400 kVRamagundam-Bhdrawati Ckt-2
		15-18	1950		1950		738		
	8th August 2013 to 9th August 2013	00-05 10-19	2100	0	2100	1212	888		
		05-10 19-24	2100		2100		888		
	10th August 2013 to 11th August 2013	00-05 10-19	2100	0	2100	1612	488		
		05-10 19-24	2100		2100		488		
	12th August 2013 to 31st August 2013	00-05 10-19	1600	0	1600	1612	0		Revised dueto all units of Revival of all units of Talcher stage-2.
		05-10 19-24	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			2900		2614		
		17-23	3600						
NER	1st August 2013 to 21st August 2013	00-17	400	100	300	0	300		
		23-24			280		280		
		17-23	380						
	22nd August 2013 to 23rd August 2013	00-08	400	100	300	0	300		
		23-24			300		300		
		08-17	400		280		280		
	24th August 2013 to 31st August 2013	00-17	400	100	300	0	300		
		23-24			280		280		
		17-23	380						
WR									
SR	1st August 2013 to 25th August 2013	00-17	1800	0	1800	148	1652		
		23-24			1900		1752		
		17-23	1900						
	26th August 2013 to 31st August 2013	00-17	1800	0	1800	197	1603		
		23-24			1900		1703		
		17-23	1900						

## Limiting Constraints

NR	<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
NER	<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
SR	<b>Import</b>	Bhadrawati HVDC B/B link capacity (n-1) contingency of 220 kV Jayanagar - Jeypore and Talcher-Kolar HVDC Capacity
	<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>