# National Load Despatch Centre Total Transfer Capability for June 2013

Revision No. 16

Issue Date: 24/06/2013

## Issue Time: 1230 hrs

	# against any corrido	or indicates	that revision	has been don	e for this corric	lor			
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 June 2013 to 30th June 2013	00-24	2500	500	2000	286	1714		Revised due to commissioning of 765 kV Agra-Jhatikara.
	1st June 2013 to 9th June 2013	00-24	5700 <sup>∆</sup>	500	$5200^{\Delta}$	$2787^{\Delta}$	2413		Revised due to commissioning of 765 kV Agra-Jhatikara.
	10th June 2013	00-08'	5700 <sup>∆</sup>	500	$5200^{\Delta}$	$2787^{\Delta}$	2413		Revised due to deferrment of 765
		08-24'	5700 <sup>∆</sup>	500	5200 <sup>Δ</sup>	2787 <sup>Δ</sup>	2413		kV Agra-Jhatikara Shutdown.
WR-NR <sup>1</sup>	11th June 2013	00-07'	5700 <sup>∆</sup>	500	5200 <sup>Δ</sup>	2787 <sup>Δ</sup>	2413		
		07-24'	3100 <sup>Δ</sup>	300	$2800^{\Delta}$	2787 <sup>Δ</sup>	13		Revised due to Shutdown of 765 kV Agra-Jhatikara.
	12th June 2013	00-24	3100 <sup>∆</sup>	300	$2800^{\Delta}$	2787 <sup>Δ</sup>	13		
	13th June 2013 to 30th June 2013	00-24	5700 <sup>∆</sup>	500	$5200^{\Delta}$	$2787^{\Delta}$	2413		Revised due to commissioning of 765 kV Agra-Jhatikara.
	1st June 2013 to	00-17	1000		800		800		
NR-ER	30th June 2013	23-24 17-23	1100	200	900	0	900		
		00-09	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV
	1st June 2013	09-18' 18-24	3000 3600	300 300	2700 3300	1913 1913	787 1387		Kahalgaon-Biharshariff 1
	2nd June 2013	00-24	3600	300	3300	1913	1387		
		00-09	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV
	3rd June 2013	09-18' 18-24	3000 3600	300 300	2700 3300	1913 1913	787 1387		Kahalgaon-Biharshariff 2
ER-NR	4th June 2013	00-09 18- 24	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff ckt-1.
		09-18'	3000	300	2700	1913	787		Kanaigaon-Binaishanni CKC-1.
	5th June 2013	00-09 18- 24	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff ckt-1.
		09-18' 00-17	3000	300	2700	1913	787		
	6th June 2013 to 30th June 2013	23-24	3600	300	3300	1913	1387		
	50th Julie 2015	17-23				1913	1387		
W3-ER	1st June 2013 to 30th June 2013	00-24	1650	300	1350	0	1350		
ER-W3	1st June 2013 to 30th June 2013	00-24	1000	300	700	700	0		
	1st June 2013 to 15th June 2013	00-24	1000	0	1000	1000	0		Revised due to change in LTA/MTOA quantum.
	16th June 2013 to	00-24	1000	0	1000	1000	0		
WR-SR#	24th June 2013	00-0830 19-24	1000		1000	1000	0		Revised due to shutdown of HVDC
	25th June 2013	0830-19'	500	0	500	500	0	500	Bhadrawati Pole-2.
	26th June 2013 to 30th June 2013	00-24	1000	0	1000	1000	0		
SR-WR	1st June 2013 to 30th June 2013	00-24	1000	0	1000	0	1000		
		00-05	1000		1000		888		
	1st June 2013 to 12th June 2013	10-19 05-10	1000	0	1000	112	888		Revised considering present loading of 400KV Rourkela-Talcher D/C
	1241 1 2010	19-24 00-08 19-24	1000	0	1000	112	888		Revised due to Emergency shutdown of
ER-SR#	13th June 2013	08-19'	700	0	700	700	0		Talcher-Kolar HVDC Pole-2.
	14th June 2013 to	00-07	1000	0	1000	110	888		Revised due to shutdown of 400 kV
	15th June 2013	18-24 07-18'	600	0	600	112	488		Rourkela-Talcher ckt-1/2
	16th June 2013 to	00-07	1000		1000		388		Revised due to shutdown of 400 kV
	19th June 2013	18-24		0		612			Rourkela-Talcher ckt-1/2
		07-18'	600		600		0		

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Corridor	# against any corrido Date	r indicates Time Period (hrs)	Total Transfer Capability (TTC)	has been done Reliability Margin	e for this corric Available Transfer Capability (ATC)	lor 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-SR#	20th June 2013 to 24th June 2013	00-24	1000	0	1000	612	388		
	25th June 2013	00-0830 19-24	1000	0	1000	612	388		
	25th June 2015	0830-19'	1000	0	1000	1000	0		
	26th June 2013 to 30th June 2013	00-24	1000	0	1000	612	388		
SR-ER	1st June 2013 to	00-17 23-24	700	0	700	197	503		
	30th June 2013	17-23	700		700		503		
	1st June 2013 to	00-07	575		540	230	310		Revised due to shutdown of 400
	8th June 2013	18-24		35	365		135	-	kV Binaguri-Bongoigaon ckt 2
	9th June 2013 to	07-18'	400			230			
	11th June 2013	00-24	575	35	540	230	310		
	12th June 2013 to 13th June 2013	00-08 18-24	575	35	540	230	310		Revised due to shutdown of 400
		08-18'	400		365	230	135		kV Binaguri-Bongoigaon ckt 2
ER-NER	14th June 2013 to 15th June 2013	00-24	575	35	540	230	310		Revised due to cancellation of 400 kV Binaguri-Bongaigaon ckt-2 shutdown.
EK-IVEK	16th June 2013	00-24	575	35	540	230	310		Revised due to cancellation of 400 kV Binaguri-Bongaigaon ckt-2 shutdown.
	17th June 2013 to 21st June 2013	00-24	575	35	540	230	310		
	22nd June 2013 to 24th June 2013	00-08 18- 24	575	35	540	230	310		Revised due to shutdown of 400
		08-18'	400		365	230	135		kV Binaguri-Bongoigaon ckt-2
	25th June 2013 to 30th June 2013	00-08 18- 24	575	35	540	230	310		Revised due to shutdown of 400
		08-18'	400		365	230	135		kV Binaguri-Bongoigaon ckt-1
	1st June 2013 to	23.24	520	100	420	0	420		
	23rd June 2013	17-23	320		220		220	•	
NER-ER	24th June 2013 to	00-08 23-24	520		420		420		Revised due to shutdown of 400 kV
	30th June 2013	08-17'	400	100	300	0	300		Binaguri-Bongoigaon ckt-1/2
		17-23	320		220		220		
S1-S2	1st June 2013 to 15th June 2013	00-24	5400	200	5200	3800	1400		Revised due to Non-commissioning Kudamkulam unit-1 and change in LTA quantum as Talcher unit-4 has
	16th June 2013 to 30th June 2013	00-24	5400	200	5200	4500	700		gone under annual maintenance from 00:00 Hrs of 27.05.2013 to 30.06.2013.
Import of Punjab	1st June 2013 to 30th June 2013	00-24	5600	300	5300	3475	1825		LTA/MTOA quantum revised due to change in Allocation.
Import TTC for DD & DNH	1st June 2013 to 30th June 2013	00-24	980	0	980	LTA and MTO scheo			

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# against any corridor indicates that revision has been done for this corridor Long Term Margin Changes Total Available Time Access (LTA)/ Available for in TTC Reliability Transfer Transfer Corridor Date Medium Term Short Term Period w.r.t. Comments Capability Margin Capability (hrs) **Open Access** Open Access Last (TTC) (ATC) (MTOA) (STOA) Revision 00-08 9000 8800 1970 1st June 2013 08-17 200 6830 8000 7800 970 Revised due to shutdown of 400 kV 23-24 Raipur-Wardha D/C from 01st June 17-23 8500 8300 1470 00-17 8000 970 2013 to 2nd June 2013 7800 17-19 1470 8500 8300 W3 zone 2nd June 2013 200 6830 19-23 9500 9300 2470 Injection 23-24 9000 8800 1970 3rd June 2013 to 00-17, 9000 8800 1970 200 6830 15th June 2013 23-24 17-23 9500 9300 2470 00-17, 16th June 2013 to 9000 8800 1170 200 7630 23-24 30th June 2013 17-23 9500 9300 1670

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

g) In cases where TTC is revised on account of any transmission element shutdown, the revised TTC shall be effective till the time the transmission element under shutdown is restored back.

A. 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**

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       Outage in 400 kV Purnea-Muzaffarpur Section         W3-ER       (n-1) contingency of either 400 kv Mejia-Maithon or (n-1) contingency of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400 kV Rourkela-Raigarh         WR-SR       Bhadrawati HVDC B/B link capacity         SR-WR       Bhadrawati HVDC B/B link capacity         SR-RR       (n-1) contingency of 400 kV Rourkela-Talcher         SR-ER       (n-1) contingency of 400 kV Balipara – Bongaigaon         NR-R-ER       (n-1) contingency of 400 kV Balipara – Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 220 kV Samaguri – Saruajai I*         SI-S2       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section	Corridor	Constraint
NR-ER       (n-1) contingency of 400 kV Allahabad-Pusauli         ER-NR       Outage in 400 kV Purnea-Muzaffarpur Section         W3-ER       (n-1) contingency of either 400 kv Mejia-Maithon or (n-1) contingency of 400 kv MPL -maithon         High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400 kV Rourkela-Raigarh         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       (n-1) contingency of 400 kV Farakka-Malda*         High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of ICT at Patiala/Moga         W3 zone       (n-1) contingency of 400 kV Baipara Bhadrawati D/C caption	NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
ER-NR       Outage in 400 kV Purnea-Muzaffarpur Section         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 400 kV Rourkela-Talcher         SR-ER       (n-1) contingency of 400 kV Farakka-Malda*         ER-NER       High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 200 kV Balipara-Bongaigaon-I (n-1) contingency of 200 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         W3 zone       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem A to ky K Somanahalli-Salem SC line.	WR-NR	(n-1) contingency of 765/400 kV ICT at Agra
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 400 kV Rourkela-Talcher         SR-ER       (n-1) contingency of 400 kV Farakka-Malda*         High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of 1CT at Patiala/Moga         W3 zone       (n-1) logatinggappu of 400 kV Balipara Bhadrawati D/C caption	NR-ER	(n-1) contingency of 400 kV Allahabad-Pusauli
(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 400 kV Rourkela-Talcher         SR-ER       (n-1) contingency of 400 kV Farakka-Malda*         ER-NER       High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara – Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         W3 zone       (n-1) contingency of 400 kV Raipurg Bhadrawati D/C caption	ER-NR	Outage in 400 kV Purnea-Muzaffarpur Section
ER-W3       High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*         (n-1) contingency of 400 kV Rourkela-Raigarh         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       (n-1) contingency of 400 kV Farakka-Malda*         ER-NER       High Loading of 220 kV BTPS-Agia         (n-1) contingency of 400 kV Balipara – Bongaigaon         (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I         (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of 1CT at Patiala/Moga         W3 zone       (n-1) L acatingency of 400 kV Raipara Bhadrawati D/C caption	W3-ER	
SR-WR       Bhadrawati HVDC B/B link capacity         ER-SR       (n-1) contingency of 400 kV Rourkela-Talcher         SR-ER       (n-1) contingency of 400 kV Farakka-Malda*         ER-NER       High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 220 kV Samaguri – Saruajai I*         S1-S2       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of ICT at Patiala/Moga         W3 zone       (n-1) contingency of 400 kV Baipara Bhadrawati D/C capation	ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni*
ER-SR       (n-1) contingency of 400 kV Rourkela-Talcher         SR-ER       (n-1) contingency of 400 kV Farakka-Malda*         ER-NER       High Loading of 220 kV BTPS-Agia         (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I         (n-1) contingency of 400 kV Balipara-Bongaigaon-I         (n-1) contingency of 220 kV Samaguri – Saruajai I*         S1-S2       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of ICT at Patiala/Moga         W3 zone       (n-1) contingency of 400 kV Rainur Bhadraugti D/C contingency	WR-SR	Bhadrawati HVDC B/B link capacity
SR-ER       (n-1) contingency of 400 kV Farakka-Malda*         ER-NER       High Loading of 220 kV BTPS-Agia         (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I         (n-1) contingency of 400 kV Balipara-Bongaigaon-I         (n-1) contingency of 220 kV Samaguri – Saruajai I*         S1-S2       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of       (n-1) contingency of ICT at Patiala/Moga         W3 zone       (n-1) contingency of 400 kV Rainur Bhadraugti D/C contingency	SR-WR	Bhadrawati HVDC B/B link capacity
<ul> <li>(n-1) contingency of 400 kV Farakka-Malda*</li> <li>ER-NER</li> <li>High Loading of 220 kV BTPS-Agia         <ul> <li>(n-1) contingency of 400 kV Balipara – Bongaigaon</li> </ul> </li> <li>NER-ER         <ul> <li>(n-1) contingency of 400 kV Balipara-Bongaigaon-I</li></ul></li></ul>	ER-SR	(n-1) contingency of 400 kV Rourkela-Talcher
ER-NER       High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon         NER-ER       (n-1) contingency of 400 kV Balipara-Bongaigaon-I (n-1) contingency of 220 kV Samaguri – Saruajai I*         S1-S2       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of ICT at Patiala/Moga         W3 zone       (n-1) contingency of 400 kV Rainur Bhadraugti D/C section	SR-ER	
NER-ER       (n-1) contingency of 220 kV Samaguri – Saruajai I*         S1-S2       (n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.         Import of Punjab       (n-1) contingency of ICT at Patiala/Moga         W3 zone       (n-1) contingency of 400 kV Pointy Physics	ER-NER	High Loading of 220 kV BTPS-Agia
Import of Punjab     (n-1) contingency of ICT at Patiala/Moga       W3 zone     (n-1) contingency of 400 kW Painur Phadrausti D/C conting	NER-ER	
Punjab     (n-1) contingency of ICT at Patiala/Moga       W3 zone     (n-1) contingency of 400 kV Beinur Bhadrausti D/C conting	~ ~ ~	(n-1) contingency of 400 kV Hosur-Salem D/C line, 400kV Hosur-Salem & 400kV Somanahalli-Salem SC line.
(n 1 1) contingency of 400 kV Deinur Phadreyyati D/C section	Punjab	(n-1) contingency of ICT at Patiala/Moga
*D'		

\*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									
		00-09	9300 <sup>Δ</sup>	800	$8500^{\Delta}$	4300	4200		
	1st June 2013	09-18'	$8700^{\Delta}$	800	$7900^{\Delta}$	4300	3600		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
		18-24	$9300^{\Delta}$	800	$8500^{\Delta}$	4300	4200		
	2nd June 2013	00-24	$9300^{\Delta}$	800	$8500^{\Delta}$	4300	4200		
		00-09	$9300^{\Delta}$	800	$8500^{\Delta}$	4300	4200		
	3rd June 2013	09-18'	$8700^{\Delta}$	800	$7900^{\Delta}$	4300	3600		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 2
		18-24	$9300^{\Delta}$	800	$8500^{\Delta}$	4300	4200	Ī	Ivangigaon-Dingi Silgi III Z
	4th June 2013	00-09 18- 24	$9300^{\Delta}$	800	$8500^{\Delta}$	4300	4200		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
NR <sup>1</sup>		09-18'	$8700^{\Delta}$	800	$7900^{\Delta}$	4300	3600		
	5th June 2013	00-09 18- 24	$9300^{\Delta}$	800	$8500^{\Delta}$	4300	4200		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
		09-18'	$8700^{\Delta}$	800	$7900^{\Delta}$	4300	3600		
	6th June 2013 to 09th June 2013	00-24	$9300^{\Delta}$	800	$8500^{\Delta}$	$4300^{\Delta}$	4200		
	10th June 2013	00-08'	$9300^{\Delta}$ $9300^{\Delta}$	800 800	$\frac{8500^{\Delta}}{8500^{\Delta}}$	$4300^{\Delta}$	4200 4200		Revised due to deferrment of 765 kV Agra-Jhatikara Shutdown.
	11th June 2013	00-07'	9300 <sup>Δ</sup>	800	8500 <sup>Δ</sup>				
						$4300^{\Delta}$	4200		Revised due to Shutdown of 765 kV
	1011 1 2012	07-24'	6700 <sup>Δ</sup>	600	6100 <sup>Δ</sup>	12004	1400		Agra-Jhatikara.
	12th June 2013	00-24	$6700^{\Delta}$	600	$6100^{\Delta}$	$4300^{\Delta}$	1400		
	13th June 2013 to 30th June 2013	00-24	9300 <sup>Δ</sup>	800	$8500^{\Delta}$	$4300^{\Delta}$	4200		
	1st June 2013 to 08th June 2013 9th June 2013 to	00-07 18-24	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt 2
		07-18'	400		365	230	135		
	11th June 2013 to	00-24	575	35	540	230	310		
	12th June 2013 to 13th June 2013	00-08 18-24	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt 2
		08-18'	400		365	230	135		
NER	14th June 2013 to 15th June 2013	00-24	575	35	540	230	310		Revised due to cancellation of 400 kV Binaguri-Bongaigaon ckt-2 shutdown.
	16th June 2013	00-24	575	35	540	230	310		Revised due to cancellation of 400 kV Binaguri-Bongaigaon ckt-2 shutdown
	17th June 2013 to 21st June 2013	00-24	575	35	540	230	310		
	22nd June 2013 to 24th June 2013	18-24	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt-2
	2-rui suite 2013	08-18'	400		365	230	135		k, Emagun Bongoigaon ekt-2
	25th June 2013 to	00-08	575	25	540	230	310		Revised due to shutdown of 400
	30th June 2013	18-24 08-18'	400	35	365	230	135		kV Binaguri-Bongoigaon ckt-1
		00-10	-100		505	230	155		
WR									

## 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
	1st June 2013 to	00-05 10- 19	2000	0	2000	1112	888		Revised due to Non-commissioning Kudamkulam unit-1 and change in LTA
	15th June 2013	05-10 19- 24	2000	U	2000	1112	888		quantum.
	13th June 2013	00-08 19- 24	2000	0	2000	1112	888		Revised due to Emergency shutdown of Talcher-Kolar HVDC Pole-2.
		08-19'	1700		1700	1700	0		
	14th June 2013 to 15th June 2013	00-07 18- 24	2000	0	2000	1112	888		Revised due to shutdown of 400 kV Rourkela-Talcher ckt-1/2
SR#		07-18'	1600		1600		488		
3 <b>K</b> #	16th June 2013 to 19th June 2013	00-07 18- 24	2000	0	2000	1612	388		Revised due to shutdown of 400 kV Rourkela-Talcher ckt-1/2
-	19th Julie 2013	07-18'	1600		1600		0		
	20th June 2013 to 24th June 2013	00-24	2000	0	2000	1612	388		
	25th June 2013	00-0830 19-24	2000	0	2000	1612	388		Revised due to shutdown of HVDC
		0830-19'	1500	1	1500	1500	0	500	Bhadrawati Pole-2.
	26th June 2013 to 30th June 2013	00-24	2000	0	2000	1612	388		

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

## 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 June 2013 to 30th June 2013	00-17 23-24	3500	700	2800	286	2514		
	50th 5the 2015	17-23	3600		2900		2614		
	1st June 2013 to 23rd June 2013	00-17 23-24	520	100	420	0	420		
		17-23	320		220		220		
NER	24th June 2013 to	00-08 23-24	520	100	420	0	420		Revised due to shutdown of 400 kV
	30th June 2013	08-17'	400		300		300		Binaguri-Bongoigaon ckt-1/2
		17-23	320		220		220		
WD									
WR									
SR	1st May 2013 to	00-17 23-24	1700	0	1700	197	1503		
	31st May 2013	17-23	1700		1700		1503		

## Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Farakka-Malda* (n-1) contingency of 765/400 kV ICT at Agra*
INK	Export	(n-1) contingency of 400 kV Allahabad-Pusauli
	Import	High Loading of 220 kV BTPS-Agia
	_	(n-1) contingency of 400 kV Balipara – Bongaigaon-I
NER		(n-1) contingency of 400 kV Farakka-Malda*
	Export	(n-1) contingency of 220 kV Samaguri – Saruajai I*
		(n-1) contingency of 400 kV Balipara-Bongaigaon-I
	Import	(n-1) contingency of 400 kV Rourkela-Talcher*
SR		Bhadrawati HVDC B/B link capacity.
	Export	Bhadrawati HVDC B/B link capacity.

\*Primary constraints

# **ASSUMPTIONS IN BASECASE**

		Lo	ad	Generation			
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)		
I	NORTHERN REGION						
1	Punjab	5637	5311	2111	2126		
2	Haryana	5363	5014	3289	3289		
3	Rajasthan	6574	5912	3466	3472		
4	Delhi	4605	3932	1416	1416		
5	Uttar Pradesh	10824	10831	6163	5976		
6	Jammu & Kashmir	1825	1671	604	592		
7	Uttarakhand	1476	1081	757	673		
8	Himachal Pradesh	1043	943	590	493		
9	Chandigarh	227	192	0	0		
10	ISGS			16916	1462		
	Total NR	37574	34888	35312	3266		
Ш	EASTERN REGION						
1	West Bengal	6658	5280	4836	367		
2	Jharkhand	1035	715	483	54		
3	Orissa	3597	2530	2451	161		
4	Bihar	1743	1430	101	10		
5	Damodar Valley Corporation	2461	2310	2954	295		
6	Sikkim	45	45	0			
7	Bhutan	112	112	275	26		
8	ISGS			7384	585		
	Total ER	15651	12422	18484	1499		
III	WESTERN REGION						
1	Chattisgarh	2977	2132	2518	198		
2	Madhya Pradesh	7112	4894	3601	280		
3	Maharashtra	15798	12916	13113	945		
4	Gujarat	10470	8369	10918	776		
5	Goa	327	198				
6	Daman and Diu	260	181				
7	Dadra and Nagar Haveli	612	479	40000	1100		
8	ISGS			13063	1199		
	Total WR	37556	29169	43213	3400		
IV	SOUTHERN REGION						
1	Andhra Pradesh	10283	9413	7290	656		
2							
2	Tamil Nadu Karnataka	10813	9100	6050	540		
3	Kerala	8503 3254	7453 2414	4779 2007	423		
4 5	Pondy	3254	2414 241	2007	79		
6	Goa	84	84				
7	ISGS	04	04	10846	1004		
1	Total SR	22250	29705		2704		
		33250	28705	30972	2104		
v	NORTH-EASTERN REGION						
1	Manipur	110	203	0			
2	Meghalaya	290	53	95	8		
3	Mizoram	75	84	4			
4	Nagaland	120	168	8			
5	Assam	1320	880	190	18		
6	Tripura	240	1537	85	8		
-	Arunachal Pradesh	110	924	0			
7							
7 8							
	ISGS Total NER	0	0 3848	1013 1395	57 <b>92</b>		