National Load Despatch Centre Total Transfer Capability for June 2013

against any corridor indicates that revision has been done for this corridor

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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 [∆]	500	5200^{Δ}	2787^{Δ}	2413		Revised due to commissioning of 765 kV Agra-Jhatikara.			
	104 1 2012	00-08'	5700 [∆]	500	5200^{Δ}	2787^{Δ}	2413		Revised due to deferrment of 765			
	10th June 2013	08-24'	5700 [∆]	500	5200^{Δ}	2787^{Δ}	2413		kV Agra-Jhatikara Shutdown.			
WR-NR ¹	11.1 1 2012	00-07'	5700 [∆]	500	5200^{Δ}	2787^{Δ}	2413					
WK-NK	11th June 2013	07-24'	3100 ^Δ	300	2800^{Δ}	2787^{Δ}	13		Revised due to Shutdown of 765 kV			
	12th June 2013	00-24	3100 ^Δ	300	2800^{Δ}	2787^{Δ}	13		Agra-Jhatikara.			
	13th June 2013 to 30th June 2013	00-24	5700 [∆]	500	5200 ^Δ	2787^{Δ}	2413		Revised due to commissioning of 765 kV Agra-Jhatikara.			
	4 . 7	00-17	1000				000					
NR-ER	1st June 2013 to 30th June 2013	23-24	1000	200	800	0	800					
	0.000	17-23 00-09	1100 3600	300	900 3300	1913	900 1387					
	1st June 2013	00-09	3000	300	2700	1913	787		Revised due to shutdown of 400 kV			
		18-24	3600	300	3300	1913	1387		Kahalgaon-Biharshariff 1			
	2nd June 2013	00-24	3600	300	3300	1913	1387					
	2nd June 2012	00-09	3600 3000	300 300	3300 2700	1913 1913	1387 787		Revised due to shutdown of 400 kV			
	3rd June 2013	18-24	3600	300	3300	1913	1387		Kahalgaon-Biharshariff 2			
ED MD		00-09 18-							Device deduce to about device of 400 lay			
ER-NR	4th June 2013	24	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff ckt-1.			
	5th June 2013	09-18'	3000	300	2700	1913	787		Randiguoti Billarsharin eke 1.			
		00-09 18- 24	3600	300	3300	1913	1387		Revised due to shutdown of 400 kV			
		09-18'	3000	300	2700	1913	787		Kahalgaon-Biharshariff ckt-1.			
	6th June 2013 to	00-17				1913	1387					
	30th June 2013	23-24	3600	300	3300	1913	1387					
		17-23				1913	1367					
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								Revised due to change in LTA/MTOA			
	15th June 2013	00-24	1000	0	1000	1000	0		quantum.			
	16th June 2013 to 24th June 2013	00-24	1000	0	1000	1000	0					
WR-SR	25th June 2013	00-0830 19-24	1000	0	1000	1000	0		Revised due to shutdown of HVDC			
	261 1 2012	0830-19'	500		500	500	0		Bhadrawati Pole-2.			
	26th June 2013 to 30th June 2013 1st June 2013 to	00-24	1000	0	1000	1000	0					
SR-WR	30th June 2013	00-24	1000	0	1000	0	1000					
		00-05	1000		1000		888					
ER-SR	1st June 2013 to 12th June 2013	10-19 05-10	1000	0	1000	112			Revised considering present loading of 400KV Rourkela-Talcher D/C			
	12th Julie 2013	19-24	1000		1000		888		400K V Rourkeia-Taichei D/C			
		00-08	1000		1000	112	888		Revised due to Emergency shutdown of			
	13th June 2013	19-24		0					Talcher-Kolar HVDC Pole-2.			
		08-19' 00-07	700		700	700	0					
	14th June 2013 to	18-24	1000	0	1000	112	888		Revised due to shutdown of 400 kV			
	15th June 2013	07-18'	600		600		488		Rourkela-Talcher ckt-1/2			
	16th June 2013 to	00-07	1000	0	1000	(12	388		Revised due to shutdown of 400 kV			
	19th June 2013	18-24 07-18'	600	0	600	612	0		Rourkela-Talcher ckt-1/2			
	2010	07-18	000		000		U					

National Load Despatch Centre Total Transfer Capability for June 2013

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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		
	20th June 2013 to 24th June 2013	00-24	1000	0	1000	612	388				
ER-SR	25th June 2013	00-0830 19-24	1000	0	1000	612	388				
	26th June 2013 to	0830-19'	1000		1000	1000	0				
	30th June 2013 to	00-24	1000	0	1000	612	388				
SR-ER	1st June 2013 to 30th June 2013	00-17 23-24	700	0	700	197	503				
		17-23	700		700		503				
	1st June 2013 to	00-07 18-24	575	35	540	230	310		Revised due to shutdown of 400		
	8th June 2013	07-18'	400	33	365	230	135		kV Binaguri-Bongoigaon ckt 2		
	9th June 2013 to 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 kV Binaguri-Bongoigaon ckt 2		
		08-18'	400		365	230	135		Revised due to cancellation of 400		
ER-NER	14th June 2013 to 15th June 2013	00-24	575	35	540	230	310		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 25th June 2013 to 30th 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				
		00-08 18- 24	575	35	540	230	310		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt-1		
		08-18' 00-17	400		365	230	135		0 0		
	1st June 2013 to 23rd June 2013	23-24	520 320	100	420 220	0	420	•			
	244 1 2012 4	00-08	520		420		220 420				
NER-ER#	24th June 2013 to 28th June 2013	23-24 08-17'	400	100	300	0	300		Revised due to shutdown of 400 kV Binaguri-Bongoigaon ckt-1/2		
		17-23 00-08	320		220		220				
	29th June 2013 to 30th June 2013	17-24	550	100	450	0	450	30	Revised due to load generation Balance.		
		08-17'	400		300		300				
a	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		
S1-S2	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					

National Load Despatch Centre Total Transfer Capability for June 2013

Issue Date: 28/06/2013 Issue Time: 1830 hrs Revision No. 17

against any corridor indicates that revision has been done for this corridor

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
		00-08	9000		8800		1970		
	1st June 2013	08-17' 23-24	8000	200	7800	6830	970		Revised due to shutdown of 400 kV Raipur-Wardha D/C from 01st June 2013 to 2nd June 2013
		17-23	8500		8300		1470		
	2nd June 2013	00-17	8000	200	7800	6830	970		
W2		17-19	8500		8300		1470		
W3 zone		19-23	9500		9300		2470		
Injection		23-24	9000		8800		1970		
	3rd June 2013 to 15th June 2013	00-17, 23-24	9000	200	8800	6830	1970		
		17-23	9500		9300		2470		
	16th June 2013 to 30th June 2013	00-17, 23-24	9000	200	8800	7630	1170		
	30th Julie 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.

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	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*
ER-W5	(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 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
Punjab	(ii 1) coningency of to 1 in tuning 170gu
W3 zone	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section
Injection	<u> </u>
	*Primary constraints

^{*}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^{Δ}	800	8500^{Δ}	4300	4200		
	1st June 2013	09-18'	8700^{Δ}	800	7900^{Δ}	4300	3600		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
		18-24	9300 [∆]	800	8500^{Δ}	4300	4200		
	2nd June 2013	00-24	9300^{Δ}	800	8500^{Δ}	4300	4200		
		00-09	9300^{Δ}	800	8500^{Δ}	4300	4200		
	3rd June 2013	09-18'	8700 [∆]	800	7900^{Δ}	4300	3600		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 2
		18-24	9300 ^Δ	800	8500^{Δ}	4300	4200		Kanaigaon-binaisharin 2
	4th June 2013	00-09 18- 24	9300 ^Δ	800	8500^{Δ}	4300	4200		Revised due to shutdown of 400 kV
NR^1		09-18'	8700^{Δ}	800	7900^{Δ}	4300	3600		Kahalgaon-Biharshariff 1
	5th June 2013	00-09 18- 24	9300^{Δ}	800	8500^{Δ}	4300	4200		Revised due to shutdown of 400 kV Kahalgaon-Biharshariff 1
		09-18'	8700 [∆]	800	7900^{Δ}	4300	3600		Kunalgaen binarsnarm 1
	6th June 2013 to 09th June 2013	00-24	9300 [∆]	800	8500^{Δ}	4300^{Δ}	4200		
	10th June 2013	00-08'	9300^{Δ}	800	8500 [∆]	4300^{Δ}	4200		Revised due to deferrment of 765 kV
		08-24'	9300^{Δ}	800	8500^{Δ}	4300	4200		Agra-Jhatikara Shutdown.
	11th June 2013	00-07'	9300 ^Δ	800	8500^{Δ}	4300^{Δ}	4200		5-5-14
		07-24'	6700^{Δ}	600	6100^{Δ}	4300	1400		Revised due to Shutdown of 765 kV Agra-Jhatikara.
	12th June 2013	00-24	6700^{Δ}	600	6100^{Δ}	4300^{Δ}	1400		Agia matikara.
	13th June 2013 to 30th June 2013	00-24	9300^{Δ}	800	8500^{Δ}	4300^{Δ}	4200		
	1st June 2013 to 08th June 2013	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		ary Binagair Bongoigaon ent 2
	9th June 2013 to 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 kV Binaguri-Bongoigaon ckt 2
	1341 34110 2013	08-18'	400		365	230	135		0 0
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	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		
	25th June 2013 to	00-08 18-24	575	35	540	230	310		Revised due to shutdown of 400
	30th June 2013	08-18'	400	33	365	230	135		kV Binaguri-Bongoigaon ckt-1
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		or faither Rolar HVDC Fole 2.
	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		Rourkeia-Taicher Ckt-1/2
SK	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		Nourkela-Talcher CKt-1/2
	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 Bhadrawati Pole-2.
		0830-19'	1500		1500	1500	0		Diladiawati i Ole 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		
	30th Julie 2013	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	100	300	U	300		Binaguri-Bongoigaon ckt-1/2
		17-23	320		220		220		
TVD.									
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*
	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

Month: June 2013

		1		Month: June 2013			
		Lo	ad	Generation			
S.No.	Name of State/Area	Peak Load	Off Peak	Off Peak			
		(MW)	Load (MW)	Peak (MW)	(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	14627		
	Total NR	37574	34888	35312	32663		
II	EASTERN REGION						
1	West Bengal	6658	5280	4836	3678		
2	Jharkhand	1035	715	483	541		
3	Orissa	3597	2530	2451	1611		
4	Bihar	1743	1430	101	101		
5	Damodar Valley Corporation	2461	2310	2954	2954		
6	Sikkim	45	45	0	C		
7	Bhutan	112	112	275	260		
8	ISGS			7384	5854		
	Total ER	15651	12422	18484	14999		
III	WESTERN REGION						
1	Chattisgarh	2977	2132	2518	1985		
2	Madhya Pradesh	7112	4894	3601	2802		
3	Maharashtra	15798	12916	13113	9454		
4	Gujarat	10470	8369	10918	7764		
5	Goa	327	198				
6	Daman and Diu	260	181				
7	Dadra and Nagar Haveli	612	479				
8	ISGS			13063	11996		
	Total WR	37556	29169	43213	34001		
IV	SOUTHERN REGION						
1	Andhra Pradesh	10283	9413	7290	6560		
2	Tamil Nadu	10813	9100	6050	5408		
3	Karnataka	8503	7453	4779	4233		
4	Kerala	3254	2414	2007	794		
5	Pondy	313	241				
6	Goa	84	84				
7	ISGS			10846	10049		
	Total SR	33250	28705	30972	27044		
	None III - 10						
V	NORTH-EASTERN REGION						
1	Manipur	110	203	0	(
2	Meghalaya	290	53	95	80		
3	Mizoram	75	84	4	(
4	Nagaland	120	168	8	(
5	Assam	1320	880	190	180		
6	Tripura	240	1537	85	85		
7	Arunachal Pradesh	110	924	0	(
8	ISGS	0	0	1013	577		
	Total NER	2265	3848	1395	928		
	Total All India	126297	109032	129376	109635		