National Load Despatch Centre Total Transfer Capability for May 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 May 2013 to 8th May 2013	00-24	1500	200	1300	286	1014			
1 1.1.11	9th May 2013 to 31st May 2013	00-24	2500	500	2000	286	1714	1000	Revised due to commissioning of 765 kV Agra-Jhatikara.	
WR-NR ¹ #	1st May 2013 to 8th May 2013	00-24	2000*	200	1800	1287	513		LTA revised due to commissioning of CGPL Unit-50.	
WK-1VK #	9th May 2013 to 31st May 2013	00-24	5700 [∆]	500	5200^{Δ}	2787 ^Δ	2413	2200	Revised due to commissioning of 765 kV Agra-Jhatikara.	
		00-17								
NR-ER	1st May 2013 to	23-24	1000	200	800	0	800			
	31st May 2013	17-23	1100		900		900			
	1st May 2013 to	00-17	2600	200	2200	1913	387			
	8th May 2013	23-24 17-23		300	2300	1913	387		4700	
ER-NR#	9th May 2013 to 31st May 2013	00-17								
		23-24	3000	300	2700	1913	787	400	Revised due to increase in hydro generation pattern in Eastern Region	
	31st Way 2013	17-23				1913	787		generation pattern in Eastern negion	
	1st May 2013	00-24	1650	300	1350	0	1350		Revised due to network configuration changes in Eastern Region and other new generating units addition leading to change in power flow pattern.	
	2nd May 2013	00-08	1650	300	1350	0	1350		F	
W3-ER#	2llu Way 2013	08-24'	1450	300	1150	0	1150		Revised due to shutdown of 400 kV	
	3rd May 2013 to 7th May 2013	00-24	1450	300	1150	0	1150		Sterlite-Raigarh (LILO 1) and 400 kV Raigarh-Rourkela 1	
	8th May 2013	00-18	1450	300	1150	0	1150		K V Rangam Rouncia 1	
	9th May 2013 to	18-24	1650	300	1350	0	1350		Revised due to load generation	
	31st May 2013	00-24	1900	300	1600	0	1600	250	balance review.	
	1st May 2013	00-24	1000	300	700	700	0			
	2nd May 2013	00-08	1000	300	700	700	0			
ED Wa	3rd May 2013 to	08-24'	800	300	500	500	0		Revised due to shutdown of 400 kV Sterlite-Raigarh (LILO 1) and 400	
ER-W3	7th May 2013	00-18	800	300	500	500	0		kV Raigarh-Rourkela 1	
	8th May 2013	18-24	1000	300	700	700	0			
	9th May 2013 to 31st May 2013	00-24	1000	300	700	700	0			
	1st May 2012 to								Paying due to shares in MTOA	
WR-SR	31st May 2013	00-24	1000	0	1000	1000	0		Quantum.	
SR-WR	1st May 2013 to 31st May 2013	00-24	1000	0	1000	0	1000			
	31st May 2013 1st May 2013 to 31st May 2013 1st May 2013 to	00-24	1000	0	1000	1000	0		Revised due to change in MTO Quantum.	

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	1st May 2013 to	00-05 10-19	1000	0	1000	112	888		Review of TTC due to change in Load Generation scenario and also change in	
	2nd May 2013	05-10 19-24	1000		1000		888		LTA Quantum.	
ER-SR ² #	3rd May 2013 to	00-05 10-19	1000	0	1000	112	888			
EK-SK#	8th May 2013	05-10 19-24	1000^	Ů	1000^	112	888^			
	9th May 2013 to	00-05 10-19	1200**	0	1200**	112	1088**	200	Revised due to change in Load	
	31st May 2013	05-10 19-24	1200**	Ů	1200**	112	1088**	200	Generation scenario	
SR-ER	1st May 2013 to 31st May 2013	00-17 23-24	700	0	700	197	503			
		17-23	700		700		503			
	1st May 2013 to	00-17 23-24	475	35	440	230	210		Revised due to change in load	
	4th May 2013	17-23	475		440	230	210		generation Balance.	
ER-NER#	5th May 2013 to 8th May 2013	00-17 23-24	525	35	490	230	260		Revised due to increase in hydro generation in ER/Bhutan.	
		17-23 00-17	525		490	230	260			
	9th May 2013 to 31st May 2013	23-24	575 575	35	540 540	230	310 310	50	Revised due to increase in hydro generation in ER/Bhutan.	
	1st May 2013 to 31st May 2013	00-17				230				
NER-ER		23-24	520	100	420	0	420			
		17-23	320		220		220			
S1-S2	1st May 2013 to 31st May 2013	00-24	5400	200	5200	4000	1200		Revised due to Non-commissioning Kudamkulam unit-1.	
Import of	1st May 2013 to 4th May 2013	00-24	5400	300	5100	3243	1857			
Punjab	5th May 2013 to 31st May 2013	00-24	5600	300	5300	3350	1950			
Import TTC for DD & DNH	1st May 2013 to 31st May 2013	00-24	980	0	980	LTA and MTO				
	1st May 2013 to	00-17, 23-24	9000	200	8800	6870	1930		Revised due to change in power flow pattern consequent to upgradation of Bina-Gwalior-Agra	
W3 zone	31st May 2013	17-23	9500	200	9300	0070	2430		D/C section from 400 kV to 765 kV and other new generating units addition.	
Injection		00-10	9000		8800		1930		Revised due to emergency shutdown	
	4th May 2013	10-16'	8550	200	8350	6870	1480		of 400 kV Raipur-Wardha ck2 on 4th May 2013	
		16-17 17-23	9000 9500		9300 9300		1930 2430			
	5th May 2013 to	00-17, 23-24	9000	200	8800	6870	1930			
	31st May 2013	17-23	9500		9300		2430			

National Load Despatch Centre Total Transfer Capability for May 2013

Issue Date: 08/05/2013 Issue Time: 1300 hrs Revision No. 7

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

Corridor Date Time Period (hrs) Total Transfer Capability (TTC) Reliability Margin (ATC)	Long Term Access (LTA)/ Available for in TTC
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- 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
- $^{\wedge}$ additional 200 MW can be transferred to SR if injection point is South odisha.
- * Would be reviewed after completion of augmentation works at 765 kV Agra

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

2. ER-SR TTC/ATC is dependent to a significant extent on Talcher Stage 2 generation of NTPC which has been varying daily reportedly due to fuel supply constraints. While NTPC has been requested to provide an outlook of plant MW declaration over a longer time horizon of say ten days, pending this, the margins would be evaluated on day ahead basis and offered for the Day Ahead Market collective transactions so as to optimize utilization of transmission corridors.

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 Farakka-Malda
W3-ER	(n-1)contingency of 400 kV Sterlite-Rourkela
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	
ER-NER	(n-1) contingency of 400 kV Farakka-Malda* High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon -I
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 Injection	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section

^{*}Primary constraints

^{**} additional 300 MW can be transferred to SR if injection point is South odisha.

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									
	1st May 2013 to 8th May 2013	00-17 23-24 17-23	4600*	500	4100 4100	3200	900		LTA revised due to commisioning of CGPL Unit- 50
NR¹#	9th May 2013 to	00-17 23-24	8700 [∆]	800	7900 [∆]	4700^{Δ}	3200	2600	Revised due to commissioning of 765 kV Agra-Jhatikara and increase in
	31st May 2013	17-23	0,00		7900^{Δ}	4700	3200		hydro generation pattern in ER.
	1st May 2013 to 4th May 2013	00-17 23-24	475	35	440	230	210		Revised due to change in load generation Balance.
		17-23	475		440	230	210		generation Butanee.
NER#	5th May 2013 to 8th May 2013 9th May 2013 to 31st May 2013	00-17 23-24	525	35	490	230	260		Revised due to increase in hydro generation. Revised due to increase in hydro generation pattern.
		17-23	525		490	230	260		
		00-17 23-24	575		540	230	310	50	
		17-23	575		540	230	310		nyuro generation pattern.
WR									
		00-05							
	1st May 2013 to	10-19	2000	0	2000	1112	888		Review of TTC due to change in Load Generation scenario and also change in LTA quantum.
	2nd May 2013	05-10 19-24	2000	O .	2000	1112	888		
crp2u	3rd May 2013 to	00-05 10-19	2000	0	2000	1112	888		
SR ² #	8th May 2013	05-10 19-24	2000^	0	2000^	1112	888^		
	9th May 2013 to	00-05 10-19	2200**	0	2200**	1112	1088**	200	Revised due to change in Load Generation scenario
	31st May 2013	05-10 19-24	2200**		2200**	1112	1088**	200	

^{*} Would be reviewed after completion of augmentation works at 765 kV Agra

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:

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- One of the 765/400 kV 1500 MVA ICT at Agra
- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

2. ER-SR TTC/ATC is dependent to a significant extent on Talcher Stage 2 generation of NTPC which has been varying daily reportedly due to fuel supply constraints. While NTPC has been requested to provide an outlook of plant MW declaration over a longer time horizon of say ten days, pending this, the margins would be evaluated on day ahead basis and offered for the Day Ahead Market collective transactions so as to optimize utilization of transmission corridors.

[^] additional 200 MW can be transferred to SR if injection point is South odisha.

^{**} additional 300 MW can be transferred to SR if injection point is South odisha.

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
	1st May 2013 to 8th May 2013	00-17 23-24	2500	200	2300	286	2014		
NR#		17-23	2600		2400		2114		
NK#	9th May 2013 to 31st May 2013	00-17 23-24	3500	200	3300	286	3014	1000	Revised due to commissioning of 765 kV Agra-Jhatikara.
		17-23	3600		3400		3114		
NER	1st May 2013 to 31st May 2013	00-17 23-24	520	100	420	0	420		
		17-23	320		220		220		
WR									
WK									
SR	1st May 2013 to 31st May 2013	00-17 23-24	1700	0	1700	197	1503		
	318t Widy 2013	17-23	1700		1700		1503		

Limiting Constraints

	Import	(n-1) contingency of 400 kV Farakka-Malda*
NR		(n-1) contingency of 765/400 kV ICT at Agra*
111	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
		(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	Bhadrawati HVDC back to back capacity
SR		(n-1) contingency of 400 kV Rourkela-Talcher*
	Export	

ASSUMPTIONS IN BASECASE

		Loa	ad	Generation		
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
ı	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	(
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	100.10	1001	
7	ISGS			10846	10049	
	Total SR	33250	28705	30972	27044	
V	NORTH-EASTERN REGION					
1		110	203	0	(
2	Manipur Meghalaya	290	53	95	80	
3	•					
4	Mizoram	75 120	84 168	8	(
	Nagaland	-			100	
5	Assam	1320	880	190	180	
6	Tripura	240	1537	85	8	
7 8	Arunachal Pradesh ISGS	110	924	1013	57	
0	Total NER	2265	0 3848	1013 1395	577 928	
	TOTAL INEIN	2205	3040	1385	920	
	Total All India	126297	109032	129376	10963	