National Load Despatch Centre
Total Transfer Capability for June 2013

Issue Date: 09/05/2013 Issue Time: 2000 hrs Revision No. 3

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
NR-WR#	1st June 2013 to 30th June 2013	00-24	2500	500	2000	286	1714	800	Revised due to commissioning of 765 kV Agra-Jhatikara.
WR-NR[1]#	1st June 2013 to 30th June 2013	00-24	5700$^{\Delta}$	500	5200$^{\Delta}$	2787$^{\Delta}$	2413	2200	Revised due to commissioning of 765 kV Agra-Jhatikara.
NR-ER	1st June 2013 to 30th June 2013	00-17, 23-24	1000	200	800	0	800		
		17-23	1100		900		900		
ER-NR#	1st June 2013 to 30th June 2013	00-17, 23-24	3000	300	2700	1913	787	400	Revised due to increase in hydro generation pattern in Eastern Region.
		17-23				1913	787		
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		
WR-SR	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 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		
ER-SR	1st June 2013 to 15th June 2013	00-05, 10-19	700	0	700	112	588		Revised due to change in LTA/MTOA quantum.
		05-10, 19-24	700		700		588		
	16th June 2013 to 30th June 2013	00-05, 10-19	700	0	700	612	88		Revised due to change in LTA/MTOA quantum.
		05-10, 19-24	700		700		88		
SR-ER	1st June 2013 to 30th June 2013	00-17, 23-24	700	0	700	197	503		
		17-23	700		700		503		
ER-NER#	1st June 2013 to 30th June 2013	00-17, 23-24	575	35	540	230	310	100	Revised due to increase in Hydro generation in ER/Bhutan.
		17-23	575		540	230	310		
NER-ER	1st June 2013 to 30th June 2013	00-17, 23-24	520	100	420	0	420		
		17-23	320		220		220		
S1-S2	1st June 2013 to 15th June 2013	00-24	5800	200	5600	4500	1100		
	16th June 2013 to 30th June 2013	00-24	5800	200	5600	5200	400		
Import of Punjab	1st June 2013 to 30th June 2013	00-24	5600	300	5300	3350	1950		
Import TTC for DD & DNH	1st June 2013 to 30th June 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st June 2013 to 15th June 2013	00-17, 23-24	9000	200	8800	6830	1970		Revised due to change in power flow pattern consequent to upgradation of Bina-Gwalior-Agra D/C section from 400 kV to 765 kV and other new generating units addition.
		17-23	9500		9300		2470		
	16th June 2013 to 30th June 2013	00-17, 23-24	9000	200	8800	7630	1170		
		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

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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 Farakka-Malda
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	
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
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

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[1]#	1st June 2013 to 30th June 2013	00-17 23-24	8700$^{\Delta}$	800	7900$^{\Delta}$	4700$^{\Delta}$	3200	2600	Revised due to commissioning of 765 kV Agra-Jhatikara.
		17-23			7900$^{\Delta}$		3200		
NER#	1st June 2013 to 30th June 2013	00-17 23-24	575	35	540	230	310	100	Revised due to increase in Hydro generation in ER/Bhutan.
		17-23	575		540	230	310		
WR									
SR	1st June 2013 to 15th June 2013	00-05 10-19	1700	0	1700	1112	588		Revised due to change in LTA/MTOA quantum.
		05-10 19-24	1700		1700		588		
	16th June 2013 to 30th June 2013	00-05 10-19	1700	0	1700	1612	88		Revised due to change in LTA/MTOA quantum.
		05-10 19-24	1700		1700		88		

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	800	Revised due to commissioning of 765 kV Agra-Jhatikara.
		17-23	3600		2900		2614		
NER	1st June 2013 to 30th June 2013	00-17 23-24	520	100	420	0	420		
		17-23	320		220		220		
WR									
SR	1st May 2013 to 31st May 2013	00-17 23-24	1700	0	1700	197	1503		
		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
NER	**Import**	High Loading of 220 kV BTPS-Agia (n-1) contingency of 400 kV Balipara – Bongaigaon-I (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
SR	**Import**	(n-1) contingency of 400 kV Rourkela-Talcher* Bhadrawati HVDC B/B link capacity.
	Export	Bhadrawati HVDC B/B link capacity.

*Primary constraints

ASSUMPTIONS IN BASECASE

S.No.	Name of State/Area	Load		Generation	
		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	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	0
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**
V	NORTH-EASTERN REGION				
1	Manipur	110	203	0	0
2	Meghalaya	290	53	95	80
3	Mizoram	75	84	4	0
4	Nagaland	120	168	8	6
5	Assam	1320	880	190	180
6	Tripura	240	1537	85	85
7	Arunachal Pradesh	110	924	0	0
8	ISGS	0	0	1013	577
	Total NER	**2265**	**3848**	**1395**	**928**
	Total All India	**126297**	**109032**	**129376**	**109635**