

National Load Despatch Centre
Total Transfer Capability for July 2013

Issue Date: 09/05/2013

Issue Time: 2000 hrs

Revision No. 2

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 July 2013 to 31st July 2013	00-24	2500	500	2000	286	1714	800	Revised due to commissioning of 765 kV Agra-Jhatikara.
WR-NR ¹ #	1st July 2013 to 31st July 2013	00-24	5700 ^Δ	500	5200 ^Δ	2787 ^Δ	2413	2200	Revised due to commissioning of 765 kV Agra-Jhatikara.
NR-ER	1st July 2013 to 31st July 2013	00-17	1000	200	800	0	800		
		23-24							
		17-23							
ER-NR	1st July 2013 to 31st July 2013	00-17	4000	500	3500	2189	1311		
		23-24							
		17-23							
W3-ER	1st July 2013 to 31st July 2013	00-24	1650	300	1350	0	1350		
ER-W3	1st July 2013 to 31st July 2013	00-24	1000	300	700	700	0		
WR-SR	1st July 2013 to 31st July 2013	00-24	1000	0	1000	1000	0		
SR-WR	1st July 2013 to 31st July 2013	00-24	1000	0	1000	0	1000		
ER-SR	1st July 2013 to 31st July 2013	00-05	950	0	950	612	338		Revised due to change in LTA/MTOA quantum.
		10-19							
		05-10 19-24							
SR-ER	1st July 2013 to 31st July 2013	00-17	700	0	700	197	503		
		23-24							
		17-23							
ER-NER	1st July 2013 to 31st July 2013	00-17	590	35	555	230	325		
		23-24							
		17-23							
NER-ER	1st July 2013 to 31st July 2013	00-17	570	100	470	0	470		
		23-24							
		17-23							
S1-S2	1st July 2013 to 31st July 2013	00-24	5800	200	5600	5200	400		
Import of Punjab	1st July 2013 to 31st July 2013	00-24	5600	300	5300	3350	1950		
Import TTC for DD & DNH	1st July 2013 to 31st July 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st July 2013 to 31st July 2013	00-17, 23-24	9000	200	8800	7630	1170		7630 MW corresponds to maximum effective LTA/ MTOA from W3. Export Margin from W3 would vary as per the maintenance schedule of generators in the zone
		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

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

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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 400 kV Rourkela-Talcher
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	(n-1) contingency of 400/220 kV,315 MVA ICT at Misa* (n-1) contingency of 400 kV Purnea-Muzaffarpur
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
ER									
NR ¹ #	1st July 2013 to 31st July 2013	00-17	9700 ^Δ	1000	8700 ^Δ	4976 ^Δ	3724	2200	Revised due to commissioning of 765 kV Agra-Jhatikara.
		23-24			8700 ^Δ		3724		
NER	1st July 2013 to 31st July 2013	00-17	590	35	555	230	325		
		23-24			475		245		
WR									
SR	1st July 2013 to 31st July 2013	00-05	1950	0	1950	1612	338		Revised due to change in LTA/MTOA quantum.
		10-19			1950		338		

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).

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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

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 July 2013 to 31st July 2013	00-17	3500	700	2800	286	2514	800	Revised due to commissioning of 765 kV Agra-Jhatikara.
		23-24			2900		2614		
NER	1st July 2013 to 31st July 2013	00-17	570	100	470	0	470		
		23-24			255		255		
WR									
SR	1st July 2013 to 31st July 2013	00-17	1700	0	1700	197	1503		
		23-24			1700		1503		

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Purnea-Muzaffarpur (n-1) contingency of 765/400 kV ICT at Agra
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400/220 kV,315 MVA ICT at Misa (n-1) contingency of 400 kV Binaguri-Bongaigaon
	Export	(n-1) contingency of 400/220 kV,315 MVA ICT at Misa (n-1) contingency of 400 kV Purnea-Muzaffarpur
SR	Import	(n-1) contingency of 400 kV Rourkela-Talcher Bhadrawati HVDC B/B link capacity
	Export	Bhadrawati HVDC B/B link capacity

ASSUMPTIONS IN BASECASE

Month: July 2013

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	6500	4516	4738	4024
2	Jharkhand	1100	750	603	354
3	Orissa	3400	2760	2611	2266
4	Bihar	1800	1400	0	0
5	Damodar Valley Corporation	2309	2209	3404	3404
6	Sikkim	40	40	0	0
7	Bhutan	111	111	1326	1326
8	ISGS			5971	5971
	Total ER	15260	11786	18653	17345
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	9995	9192	6432	5882
2	Tamil Nadu	11922	9480	7337	5117
3	Karnataka	7600	6042	4850	3856
4	Kerala	3363	2500	2116	1320
5	Pondy	310	250		
6	Goa	84	84		
7	ISGS			10549	9990
	Total SR	33274	27548	31284	26165
V	NORTH-EASTERN REGION				
1	Manipur	103	88	0	0
2	Meghalaya	280	195	162	76
3	Mizoram	67	57	6	6
4	Nagaland	92	84	10	10
5	Assam	808	670	231	231
6	Tripura	190	145	10	63
7	Arunachal Pradesh	100	78	0	0
8	ISGS	0	0	927	829
	Total NER	1640	1317	1346	1215
	Total All India	125305	104708	129808	111389