National Load Despatch Centre Total Transfer Capability for July 2013

Revision No. 4

	# against any corrid	lor indicat	es that revisio	on has been do	one for this corr	idor			
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		Revised due to commissioning of 765 kV Agra-Jhatikara.
WR-NR ¹	1st July 2013 to 31st July 2013	00-24	5700 [∆]	500	5200^{Δ}	2787^{Δ}	2413		Revised due to commissioning of 765 kV Agra-Jhatikara.
NR-ER	1st July 2013 to 31st July 2013	00-17 23-24	1000	200	800	0	800		
ER-NR	1st July 2013 to 31st July 2013	17-23 00-17 23-24 17-23	1100 4000	500	900 3500	2189	900 1311 1311		
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 10-19 05-10	1000*	0	1000*	612	388*		Revised due to Maintenance schedule of Talcher Stage-II Unit-III.
SR-ER	1st July 2013 to 31st July 2013	19-24 00-17 23-24	1000* 700	0	1000* 700	197	388* 503		
	51st July 2015	17-23	700		700		503		
ER-NER	1st July 2013 to 31st July 2013	00-17 23-24 17-23	590 510	35	555 475	230	325 245		
	1st July 2013	00-17 23-24	570	100	470	0	470		
NER-ER#	2nd July 2013 to	17-23 00-17 23-24	355 570	100	255 470	0	255 470		Revised due to change in Load Generation balance in North-Easterr
	31st July 2013	17-23	500		400		400	145	Region.
S1-S2	1st July 2013 to 31st July 2013	00-24	5400	200	5200	4600	600		Revised due to Non- Commissioning of Kudankulam.
Import of Punjab	1st July 2013 to 31st July 2013	00-24	5600	300	5300	3475	1825		Revised due to change in LTA/MTOA quantum.
Import TTC for DD & DNH	1st July 2013 to 31st July 2013	00-24	980	0	980	LTA and MTO. scheo			
W3 zone	1st July 2013 to	00-17, 23-24	9000		8800		1170		7630 MW corresponds to maximum effective LTA/ MTOA
Injection	31st July 2013	17-23	9500	200	9300	7630	1670		from W3. Export Margin from W3 would vary as per the maintenance schedule of generators in the zone

* additional 350 MW can be transferred to SR if injection point is South odisha.

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).

Issue Date: 01/07/2013

Issue Time: 1245 hrs

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1. (A) WR-NR Total Transfer capability will be reduced to 5200 MW in case of outage of any one of the following sections: A) WR-NR Total Transfer capability will be reduced to 5200 MIVEIII case of outage of any one of the following sectors:
• 765 kV Agra-Jhatikara
• 765 kV Agra-Meerut
• One of the 765/400 kV 1500 MVA ICT at Agra
(B) WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:
• 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 kV Agra-Jhatikara
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

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 23-24	9700 [∆]	1000	8700^{Δ}	4976^{Δ}	3724		Revised due to commissioning of 765 kV
	51st July 2015	17-23			8700^{Δ}		3724		Agra-Jhatikara.
NER	1st July 2013 to	00-17 23-24	590	35	555	230	325		
	31st July 2013	17-23	510		475		245		
WR									
WK									
SR	1st July 2013 to 31st July 2013	00-05 10-19	2000*	0	2000*	1612	388*		Revised due to Maintenance schedule of Talcher Stage-II Unit-
		05-10 19-24	2000*	0	2000*		388*		III.

* additional 350 MW can be transferred to SR if injection point is South odisha.

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. (A) WR-NR Total Transfer capability will be reduced to 5200 MW in case of outage of any one of the following sections:

• 765 kV Agra-Jhatikara

• 765 kV Agra-Meerut

• One of the 765/400 kV 1500 MVA ICT at Agra

(B) WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

• 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 23-24	3500	700	2800	286	2514		Revised due to commissioning 765 kV Agra-Jhatikara.
		17-23	3600		2900		2614		705 KV Agra-Jilatikara.
	1st July 2013	00-17 23-24	570	100	470	0	470		
NER#		17-23	355		255		255		
NEK#	2nd July 2013 to 31st July 2013	00-17 23-24	570	100	470	0	470		Revised due to change in Load Generation balance in North-
		17-23	500		400		400	145	Eastern Region.
WR									
WIX .									
SR	1st July 2013 to 31st July 20133	00-17 23-24	1700	0	1700	197	1503		
		17-23	1700		1700		1503		

Limiting Constraints

	Import	(n-1) contingency of 400 kV Purnea-Muzaffarpur (n-1) contingency of 765 kV Agra-Jhatikara					
NR	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					
NEK	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

		Lo	ad	Generation		
S.No.	Name of State/Area	Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)	
Ι	NORTHERN REGION					
1	Punjab	5637	5311	2111	212	
2	Haryana	5363	5014	3289	328	
3	Rajasthan	6574	5912	3466	347	
4	Delhi	4605	3932	1416	141	
5	Uttar Pradesh	10824	10831	6163	597	
6	Jammu & Kashmir	1825	1671	604	59	
7	Uttarakhand	1476	1081	757	67	
8	Himachal Pradesh	1043	943	590	49	
9	Chandigarh	227	192	0		
10	ISGS			16916	14627	
	Total NR	37574	34888	35312	3266	
Ш	EASTERN REGION					
1	West Bengal	6500	4516	4738	402	
2	Jharkhand	1100	750	603	35	
3	Orissa	3400	2760	2611	226	
4	Bihar	1800	1400	0	LLU	
5	Damodar Valley Corporation	2309	2209	3404	340	
6	Sikkim	40	40	0	010	
7	Bhutan	111	111	1326	132	
8	ISGS			5971	597	
-	Total ER	15260	11786	18653	1734	
		15200	11700	10033	1734	
	WESTERN REGION					
1	Chattisgarh	2077	2132	2519	109	
2	Madhya Pradesh	2977 7112	4894	2518 3601	<u>198</u> 280	
3	Maharashtra	15798	12916	13113	945	
4	Gujarat	10470	8369	10918	776	
5	Goa	327	198	10918	110	
6	Daman and Diu	260	190			
7	Dadra and Nagar Haveli					
8	ISGS	612	479	13063	1199	
0	Total WR	37556	29169	43213	3400	
		3/330	29109	43213	3400	
IV	SOUTHERN REGION					
1	Andhra Pradesh	9995	9192	6432	588	
2	Tamil Nadu Karpataka	11922	9480	7337	511	
3	Karnataka	7600	6042	4850	385	
4	Kerala	3363	2500	2116	132	
5	Pondy	310	250			
6	Goa	84	84	105.10		
7	ISGS			10549	999	
	Total SR	33274	27548	31284	2616	
V	NORTH-EASTERN REGION					
1	Manipur	103	88	0		
2	Meghalaya	280	195	162	7	
3	Mizoram	67	57	6		
4	Nagaland	92	84	10	1	
5	Assam	808	670	231	23	
6	Tripura	190	145	10	6	
7	Arunachal Pradesh	100	78	0		
8	ISGS	0	0	927	82	
	Tetel NED	1640	1317	1346	4.94	
	Total NER	1040	1011	1040	121	