

**National Load Despatch Centre
Total Transfer Capability for April 2015**

Issue Date: 12/02/2015

Issue Time: 1630 hrs

Revision No. 1

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 April 2015 to 30th April 2015	00-24	2500	500	2000	706	1294		Margin revised due to cancellation of LTA/MTOA.
WR-NR	1st April 2015 to 30th April 2015	00-17	4900	500	4400	4767	0		
		23-24	4900		4400		0		
NR-ER*	1st April 2015 to 30th April 2015	00-06	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
		18-24	2000		1800	293	1507		
ER-NR	1st April 2015 to 30th April 2015	00-17	3000	300	2700	2431	269		
		23-24	3000		2700		269		
W3-ER ^s	1st April 2015 to 30th April 2015	00-24	1800	300	1500	351	1149		Margin revised due to cancellation of LTA/MTOA.
ER-W3	1st April 2015 to 30th April 2015	00-24	1000	300	700	874	0		
WR-SR	1st April 2015 to 30th April 2015	00-24	2100	750	1350	1350	0		
SR-WR *	1st April 2015 to 30th April 2015	00-24	No limit is being Specified.						
ER-SR	1st April 2015 to 30th April 2015	00-06	2650	0	2650	2585	65		
		18-24				2650	0		
SR-ER *	1st April 2015 to 30th April 2015	00-24	No limit is being Specified.						
ER-NER	1st April 2015 to 30th April 2015	00-17	670	40	630	210	420		
		23-24			630		420		
NER-ER	1st April 2015 to 30th April 2015	00-17	545	30	515	0	515		
		23-24	450	40	410		410		
S1-S2	1st April 2015 to 30th April 2015	00-24	3070	300	2770	2775	0		
Import of Punjab	1st April 2015 to 30th April 2015	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st April 2015 to 30th April 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st April 2015 to 30th April 2015	00-17	9400	200	9200	6862	2338		
		23-24	9900		9700		2838		

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

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\$ As per Simulations, predominant direction of flow is on West to North Corridor. Hence, in case injection point is in Western Region (W1,W2,W3), STOA/PX transactions from West to North on West-East-North corridor shall not be allowed as such transaction increases congestion in the West to North Corridor.

- 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 Sell transaction, b) Jindal Power Limited (JPL) Stage-I & Stage-II, 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, k) KSK Mahanadi, L)DB Power, m) KWPCCL, n)Vandana Vidyut

The figure is based on LTA/MTOA approved by CTU and Allocation figures as per RPCs RTA/REA. In actual Operation, due to Units being on Maintenance/ Fuel shortage/New units being commissioned the LTA/MTOA utilized would vary. RLDC/NLDC would factor this situation on day-ahead basis. In the eventuality that net schedules exceed ATC, real time curtailments might be effected by RLDCs/NLDC.

In case of TTC Revision due to any shutdown :

- 1) The TTC value will be revised to normal values after restoration of shutdown.
- 2) The TTC value will be revised to normal values if the shutdown is not being availed in real time.

Limiting Constraints

Corridor	Constraint
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
WR-NR	High Loading of 400kV Singrauli-Anpara & High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and Loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	(n-1) contingency of Kahalgaon-Banka S/C
W3-ER	i. (n-1) Contingency of 400 kV MPL-Maithon S/C ii. (n-1) contingency of 400kV Sterlite-Rourkela S/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.
ER-NER	(n-1) contingency of Kahalgaon-Banka S/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C
Import of DD & DNH	(n-1) contingency of 400/220KV 315MVA ICT at VAPI
Import of Punjab	(n-1) contingency of ICT at Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL)
W3 zone Injection	(n-1) contingency of 400 kV Raipur-Bhadrawati D/C section and High loading of 400kV Raipur-Wardha (850 MW SPS setting on each circuit of 400kV Raipur-Wardha)

*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	1st April 2015 to 30th April 2015	00-17	7900	800	7100	7198	0		
		23-24					0		
NER	1st April 2015 to 30th April 2015	00-17	670	40	630	210	420		
		23-24					420		
WR									
SR	1st April 2015 to 30th April 2015	00-06	4750	750	4000	3935	65		
		18-24			4000	4000	0		

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 April 2015 to 30th April 2015	00-06	4500	700	3800	999	2801		Margin revised due to cancellation of LTA/MTOA.
		06-17'			3800	1064	2736		
		23-24			3800	999	2801		
NER	1st April 2015 to 30th April 2015	00-17	545	30	515	0	515		
		23-24		40	410		410		
WR									
SR *	1st April 2015 to 30th April 2015	00-24	No limit is being Specified.						

* Fifty Percent (50 %) Counter flow benefit on account of LTA/MTOA transactions in the reverse direction would be considered for advanced transactions (Bilateral & First Come First Serve).

Limiting Constraints

NR	Import	(n-1) contingency of Kahalgaon-Banka S/C High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(n-1) contingency of Kahalgaon-Banka S/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
SR	Import	1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 2. ER-SR TTC has been declared assuming more than 1100 MW generation at Talcher Stage-2. In case Talcher Stage-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.

*Primary constraints

ASSUMPTIONS IN BASECASE

Month : Apr '15

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	5409	4445	3101	2272
2	Haryana	5737	4159	1726	1522
3	Rajasthan	7500	5646	5073	4432
4	Delhi	4025	2614	1009	650
5	Uttar Pradesh	11849	12777	5434	5454
6	Jammu & Kashmir	2100	1779	650	588
7	Uttarakhand	1344	1113	480	343
8	Himachal Pradesh	1293	927	530	423
9	Chandigarh	186	114	0	0
10	ISGS/IPPs	0	0	15905	12209
	Total NR	39443	33574	33908	27893
II	EASTERN REGION				
1	West Bengal	7200	5800	5000	4000
2	Jharkhand	1100	850	470	350
3	Orissa	3800	3100	2900	2150
4	Bihar	2550	2100	110	0
5	Damodar Valley Corporation	2650	2200	3300	2750
6	Sikkim	95	60	-	-
7	Bhutan	-	-	235	175
8	ISGS/IPPs			9520	8395
	Total ER	17395	14110	21535	17820
III	WESTERN REGION				
1	Chattisgarh	3486	3181	1610	1473
2	Madhya Pradesh	7270	5274	3570	1181
3	Maharashtra	19386	15678	15142	10934
4	Gujarat	13740	9287	9985	5532
5	Goa	410	340	0	0
6	Daman and Diu	253	261	0	0
7	Dadra and Nagar Haveli	588	626	0	0
8	ISGS/IPPs	0	0	20446	20446
	Total WR	45133	34647	50753	39566

ASSUMPTIONS IN BASECASE

Month : Apr '15

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Telangana	5832	5116	2399	2197
2	Andhra Pradesh	5307	4653	5314	4759
3	Tamil Nadu	10840	9969	6783	5823
4	Karnataka	7890	6637	6897	4860
5	Kerala	3341	2427	2082	1081
6	Pondy	340	245		
7	Goa	89	89		
8	ISGS/IPPs			7730	7730
	Total SR	33639	29136	31205	26450
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	69	31	0	0
2	Assam	749	566	225	160
3	Manipur	68	40	0	0
4	Meghalaya	201	106	104	44
5	Mizoram	51	31	4	3
6	Nagaland	63	53	10	6
7	Tripura	228	161	104	104
8	ISGS/IPPs			856	578
	Total NER	1429	988	1303	895
	Total All India	137039	112455	138704	112624