

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

Issue Date: 02/03/2015

Issue Time: 1500 hrs

Revision No. 2

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 2015 to 31st May 2015	00-24	2500	500	2000	706	1294		
WR-NR	1st May 2015 to 31st May 2015	00-17 23-24	4900	500	4400	4767	0		
		17-23	4900		4400		0		
NR-ER*	1st May 2015 to 31st May 2015	00-06	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
		18-24	2000		1800	293	1507		
ER-NR	1st May 2015 to 31st May 2015	00-17 23-24	3100	300	2800	2431	369		
		17-23	3200		2900		469		
W3-ER ^s	1st May 2015 to 31st May 2015	00-24	1800	300	1500	583	917		STOA Margins revised due to grant of MTOA from Chattisgarh to KSEB by CTU.
ER-W3	1st May 2015 to 31st May 2015	00-24	1000	300	700	874	0		
WR-SR	1st May 2015 to 31st May 2015	00-24	2100	750	1350	1350	0		
SR-WR *	1st May 2015 to 31st May 2015	00-24	No limit is being Specified.						
ER-SR	1st May 2015 to 31st May 2015	00-06 18-24	2650	0	2650	2585	65		
		06-18'				2650	0		
SR-ER *	1st May 2015 to 31st May 2015	00-24	No limit is being Specified.						
ER-NER	1st May 2015 to 31st May 2015	00-17 23-24	650	40	610	210	400		
		17-23	720		680		470		
NER-ER	1st May 2015 to 31st May 2015	00-17 23-24	545	30	515	0	515		
		17-23	450	40	410		410		
S1-S2	1st May 2015 to 31st May 2015	00-24	2830	315	2515	2535	0	-285	Revised due to commissioning of Vallur Unit-3.
Import of Punjab	1st May 2015 to 31st May 2015	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st May 2015 to 31st May 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st May 2015 to 31st May 2015	00-17 23-24	9400	200	9200	7094	2106		STOA Margins revised due to grant of MTOA from Chattisgarh to KSEB by CTU.
		17-23	9900		9700		2606		

* 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) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry

2) 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-1-1) 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 May 2015 to 31st May 2015	00-17 23-24	8000	800	7200	7198	2		
		17-23	8100		7300		102		
NER	1st May 2015 to 31st May 2015	00-17 23-24	650	40	610	210	400		
		17-23	720		680		470		
WR									
SR	1st May 2015 to 31st May 2015	00-06 18-24	4750	750	4000	3935	65		
		06-18'	4750		4000		4000		

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 May 2015 to 31st May 2015	00-06	4500	700	3800	999	2801		
		06-18'			3800	1064	2736		
		18-24			3800	999	2801		
NER	1st May 2015 to 31st May 2015	00-17 23-24	660	30	630	0	630		
		17-23	675	40	635		635		
WR									
SR *	1st May 2015 to 31st May 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 : May '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	7577	6617	3463	3477
2	Haryana	5856	5210	2202	2203
3	Rajasthan	7738	7467	4717	4717
4	Delhi	5200	4674	1323	1323
5	Uttar Pradesh	12604	12834	6533	6524
6	Jammu & Kashmir	2166	1404	443	441
7	Uttarakhand	1638	1285	830	496
8	Himachal Pradesh	1383	1127	704	624
9	Chandigarh	292	194	0	0
10	ISGS/PPs			18480	15160
	Total NR	44454	40812	38695	34965
II	EASTERN REGION				
1	West Bengal	7550	6800	5200	3700
2	Jharkhand	1070	900	470	380
3	Orissa	3950	3200	3400	2500
4	Bihar	2600	2140	180	0
5	Damodar Valley Corporation	2675	2400	3800	3400
6	Sikkim	85	50	-	-
7	Bhutan			250	140
8	ISGS/PPs			10005	8325
	Total ER	17930	15490	23305	18445
III	WESTERN REGION				
1	Chattisgarh	3336	2801	1606	1313
2	Madhya Pradesh	7271	6314	3649	3011
3	Maharashtra	19250	17030	15092	12163
4	Gujarat	13471	1238	10322	8765
5	Goa	438	347		
6	Daman and Diu	288	264		
7	Dadra and Nagar Haveli	687	665		
8	ISGS/PPs	1058	1058	22774	22774
	Total WR	45799	29717	53443	48026

ASSUMPTIONS IN BASECASE

Month : May '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	5580	5568	2354	2173
2	Andhra Pradesh	5593	5592	5077	4550
3	Tamil Nadu	12051	10398	7068	6424
4	Karnataka	8046	7046	7080	5576
5	Kerala	3328	2336	1939	770
6	Pondy	374	294		
7	Goa	89	89		
8	ISGS/IPPs			9180	9180
	Total SR	35061	31323	32698	28673
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	86	53	0	0
2	Assam	753	640	215	200
3	Manipur	83	53	0	0
4	Meghalaya	296	211	140	92
5	Mizoram	58	40	4	3
6	Nagaland	76	63	16	8
7	Tripura	244	164	110	110
8	ISGS/IPPs			990	738
	Total NER	1596	1224	1475	1151
	Total All India	144840	118566	149616	131260