National Load Despatch Centre Total Transfer Capability for May 2015

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	5100	500	4600	5157	0		
		17-23	5100		4600		0		
		00-06	2000		1800	293	1507	Ι	<u> </u>
NR-ER*	1st May 2015 to 31st May 2015	06-18'	2000	200	1800	358	1442		
	318t Way 2013	18-24	2000		1800	293	1507		
ER-NR*	1st May 2015 to	00-17 23-24	3400	300	3100	2431	669		
	31st May 2015	17-23	3400		3100		669		
W3-ER ^{\$}	1st May 2015 to	00-24					s being specified.		
W3-ER	31st May 2015	00 2 1		1		No Re-routing is	allowed via W3-E	R-NR.	1
ER-W3	1st May 2015 to	00-24	1000	300	700	874	0		
	31st May 2015								
WR-SR	1st May 2015 to 31st May 2015	00-24	2300	750	1550	1550	0		
SR-WR *	1st May 2015 to 31st May 2015	00-24				No limit i	s being Specified.		
	•								
a-	1st May 2015 to	00-06	2.50	0	2570	2385	265		
ER-SR	31st May 2015	18-24	2650	0	2650				4
	1 . 34 2015 .	06-18'				2450	200		
SR-ER *	1st May 2015 to	00-24				No limit i	s being Specified.		
	31st May 2015								
	1st May 2015 to	00-17	650		610		400		
ER-NER	31st May 2015	23-24		40		210			
	313t Way 2013	17-23	720		680		470		
NER-ER	1st May 2015 to	00-17 23-24	545	30	515	0	515		
WERE ERE	31st May 2015	17-23	450	40	410		410		
S1-S2	1st May 2015 to 31st May 2015	00-24	2920	320	2600	2474	126	90	Revised due to LGBR changes given in 106th OCC meeting.
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		OA as per ex-pp edule		
W3 zone	1st May 2015 to	00-17 23-24	9400	200	9200	7094	2106		
Injection	31st May 2015	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).

National Load Despatch Centre Total Transfer Capability for May 2015

Issue Date: 27/04/2015 Issue Time: 1245 hrs Revision No. 5

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
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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) KWPCL, 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 commissionned 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) contingnecy of Kahalgaon-Lakhisarai S/C						
ER-W3	 n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 						
WR-SR & ER-SR	n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 3. 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) contingnecy of Kahalgaon-Lakhisarai 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) contingnecy of 220kV Moga(PG)-Moga(PSTCL)						
W3 zone Injection	 n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) 						

^{*}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 17-23	8500 8500	800	7700 7700	7588	112 112		
NER	1st May 2015 to 31st May 2015	00-17 23-24 17-23	650 720	40	610 680	210	400 470		
WR									
SR	1st May 2015 to 31st May 2015	00-06 18-24 06-18'	4950 4950	750	4200 4200	3935 4000	265 200		

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	00-06 06-18'	4500	700	3800 3800	999 1064	2801 2736			
	31st May 2015	18-24	4500		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										
VV IX										
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

	Constraints	
		(n-1) contingnecy of Kahalgaon-Lakhisarai S/C
	Import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop
NR	Import	flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra
1111		D/C and from NR to WR on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda).
	Evnout	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(n-1) contingnecy of Kahalgaon-Lakhisarai S/C
NEK	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
		1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.
		2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG) D/C.
SR	Import	3. 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.
		C

^{*}Primary constraints

National Load Despatch Centre Total Transfer Capability for May 2015

Revision	Date of	Period of	Reason for Revision	Corridor
No	Revision	Revision	Reason for Revision	Affected
1	12-02-2015	Whole	Margin revised due to consultation of LTA /MTOA	NR-WR/ ER-
1	12-02-2015	Month	Margin revised due to cancellation of LTA/MTOA	W3
		Whole	STOA Margins revised due to grant of MTOA from	W3-ER/ W3
2	02-03-2015	Month	Chattisgarh to KSEB by CTU.	Zone
		IVIOITUI	Revised due to commissioning of Vallur Unit-3	S1-S2
			Revised considering the commissioning of Sasan Unit-6 and	WR-NR
3	31-03-2015	Whole	reviewed HVDC set points.	VVICTOR
3		Month	Revised considering the commissioning of 765kV Pune-	WR-SR
			Sholapur S/C.	WK-3K
		Whole	Revised considering reviwed thermal ratings of the lines in	ER-NR
4	21-04-2015	Month	ER and expected flows on ER-NR corridor	EK-NK
5	27-04-2015	Whole	Revised due to LGBR changes given in 106th OCC meeting.	S1-S2
3 27-04-2013		Month	hevised due to LOBA changes given in 100th OCC meeting.	31-32
	_			

ASSUMPTIONS IN BASECASE

Month: May '15

	Mionth : May 15								
		Lo	ad	Generation					
S.No.	Name of State/Area	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/IPPs			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/IPPs			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/IPPs	1058	1058	22774	22774				
	Total WR	45799	29717	53443	48026				

ASSUMPTIONS IN BASECASE

Month: May '15

	World : Way 15							
		Loa	ad	Generation				
S.No.	Name of State/Area	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			
٧	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	444040	440500	4.4004.0	404000			
	Total All India	144840	118566	149616	131260			