

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

Issue Date: 13/05/2015

Issue Time: 1200 hrs

Revision No. 23

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
<b>NR-WR *</b>	1st May 2015 to 31st May 2015	00-24	2500	500	2000	706	1294		
<b>WR-NR*</b>	1st May 2015	00-07	5100	500	4600	5157	0		
		07-24	4850		4350		0		
	2nd May 2015	00-0730	4850	500	4350	5157	0		
		0730-1030	4400		3900		0		
		1030-24	4850		4350		0		
	3rd May 2015	00-17	4850	500	4350	5157	0		
		23-24	4850		4350		0		
	4th May 2015	00-2115	4850	500	4350	5157	0		
		2115-2230	3750		3250		0		
		2230-24	5100		4600		0		
	5th May 2015 to 6th May 2015	00-17	5100	500	4600	5157	0		
		23-24	5100		4600		0		
	7th May 2015	00-07	5100	500	4600	5157	0		
		07--24	4100		3600		0		
	8th May 2015	00-07	5100	500	4600	5157	0		
		07--12	4100		3600		0		
		12--24	4400		3900		0		
	9th May 2015	00-17	4400	500	3900	5157	0		
		23-24	4400		3900		0		
	10th May 2015	00-17	5100	500	4600	5157	0		
		23-24	5100		4600		0		
	11th May 2015 to 12th May 2015	00-17	5100	500	4600	5157	0		
		23-24	5100		4600		0		
	13th May 2015	00-13	5100	500	4600	5157	0		
13-24		4400	3900		0				
14th May 2015 to 31st May 2015	00-17	5100	500	4600	5157	0			
	23-24	5100		4600		0			
<b>NR-ER*</b>	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		
<b>ER-NR*</b>	1st May 2015 to 31st May 2015	00-17	3400	300	3100	2431	669		
		23-24	3400		3100	669			
<b>W3-ER<sup>s</sup></b>	1st May 2015 to 31st May 2015	00-24	No limit is being specified. No Re-routing is allowed via W3-ER-NR.						
<b>ER-W3</b>	1st May 2015 to 31st May 2015	00-24	1000	300	700	874	0		
<b>WR-SR</b>	1st May 2015	05-22	2100	750	1350	1350	0		
		00-05	2500		1750		400		
	2nd May 2015 to 6th May 2015	05-22	2300	750	1550	1350	200		
		00-05	2700		1950		600		
		22-24	2700		1950		600		
	7th May 2015 to 9th May 2015	05--07	2300	750	1550	1350	200		
		07-22	1900		1150		0		
		22-24	2300		1550		200		
		05-22	2300		1550		200		
	10th May 2015 to 31st May 2015	00-05	2700	750	1950	1350	600		
22-24		2700	1950		600				

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<b>SR-WR *</b>	1st May 2015 to 31st May 2015	00-24	No limit is being Specified.							
<b>ER-SR</b>	1st May 2015 to 10th May 2015	00-06	2650	0	2650	2385	265			
		18-24								
	11th May 2015	00-06	2650	0	2650	2385	265			
		06-18'	2350		2350	2450	0			
		18-24'	2350		2350	2385	0			
		00-06	2650		2650	2385	265			
	12th May 2015	06-18'	2500	0	2500	2450	50			
		18-24'	2500		2500	2385	115			
		00-06	2650		2650	2385	265			
	13th May 2015	06-18'	2500	0	2500	2450	50			
		18-24'	2500		2500	2385	115			
		00-06	2650		2650	2385	265			
	14th May 2015 to 31st May 2015	00-06	2650	0	2650	2385	265			
		18-24								
		06-18'			2450	200				
<b>SR-ER *</b>	1st May 2015 to 31st May 2015	00-24	No limit is being Specified.							
<b>ER-NER</b>	1st May 2015 to 31st May 2015	00-17	1170	40	1130	210	920			
		23-24								
		17-23	1150		1110		900			
<b>NER-ER</b>	1st May 2015 to 31st May 2015	00-24	No limit is being Specified.							
<b>S1-S2</b>	1st May 2015	00-24	3220	320	2900	2583	317			
	2nd May 2015	00-12	3220	320	2900	2583	317			
		12'-24	3220	320	2900	2583	317			
	3rd May 2015	00-24	3220	320	2900	2583	317			
	4th May 2015	00-21:45	2920	320	2600	2474	126			
		21:45-24	3265		2945	2474	471			
	5th May 2015	00-24	3265	320	2945	2474	471			
	6th May 2015	00-19	3265	320	2945	2474	471			
		19-24	3265		2945	2474	471			
	7th May 2015	00-08	3265	320	2945	2474	471			
		12-24'	2920		2600	2474	126			
	8th May 2015	00-24	2920	320	2600	2474	126			
	9th May 2015	00-20	2920	320	2600	2474	126			
		20-24	2750		2430	2729	0			
	10th May 2015	00-13	2750	320	2430	2729	0			
		13-15	3095		2775	2729	46			
		15-24	2750		2430	2729	0			
		00-06	2750		2430	2729	0			
	11th May 2015	06-19'	2750	320	2430	2729	0			
		19-24'	3045		2725	2838	0			
		00-11:45	3045		320	2725	2838	0		
	11:45-24	3330	3010	2946		64				
	13th May 2015	00-06	3330	320	3010	2946	64			
		06-09'	3045		2725	2838	0			
		09-10'	2715		2715	2838	0			
		10-13'	3045		2725	2946	0	330	Revised due to extension of Vallur Unit - 3 Outage.	
		13-19'	2715		2395	2838	0			
	14th May 2015	19-24'	3045	320	2725	2838	0	295	Revised due to Extension of Vallur Unit -2 Outage.	
		00-06	3045		320	2725	2838	0	125	Revised due to Extension of Vallur Unit -2 & KKNPP Unit-1 Outage.
		06-09'	2750			2430	2729	0	-170	Revised due to Extension of KKNPP Unit-1 Outage.
		09-19'	2365			2045	2729	0	-190	
		19-24'	2750	2430	2729	0	-170			
	15th May 2015	00-09	2920	320	2430	2474	0			
		09-19'	2555	320	2235	2474	0			
	19-24'	2920	320	2600	2474	126				
16th May 2015 to 31st May 2015	00-24	2920	320	2600	2474	126				

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<b>Import of Punjab</b>	1st May 2015 to 31st May 2015	00-24	5700	300	5400	3790	1610		
<b>Import TTC for DD &amp; DNH</b>	1st May 2015 to 31st May 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
<b>W3 zone Injection</b>	1st May 2015 to 31st May 2015	00-17	9400	200	9200	7094	2106		
		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).

\$ 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) JDB Power, m) KWPL, 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 :

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

**Limiting Constraints**

Corridor	Constraint
<b>NR-WR</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
<b>WR-NR</b>	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).
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli
<b>ER-NR</b>	(n-1) contingency of Kahalgaon-Lakhisarai S/C
<b>ER-W3</b>	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)
<b>WR-SR &amp; ER-SR</b>	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) 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.
<b>ER-NER</b>	(n-1) contingency of Kahalgaon-Lakhisarai S/C
<b>NER-ER</b>	(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
<b>S1-S2</b>	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C
<b>Import of DD &amp; DNH</b>	(n-1) contingency of 400/220kV 315MVA ICT at VAPI
<b>Import of Punjab</b>	(n-1) contingency of ICT at Dhuri and (n-1) contingency of 220kV Moga(PG)-Moga(PSTCL)
<b>W3 zone Injection</b>	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)

\*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
SR	1st May 2015	00-05	5150	750	4400	3935	465		
		05-06'	4750		4000	3935	65		
		06-18'	4750		4000	4000	0		
		18-22	4750		4000	3935	65		
		22-24	5150		4400	3935	465		
	2nd May 2015 to 6th May 2015	00-05	5350	750	4600	3935	665		
		05-06'	4950		4200	3935	265		
		06-18'	4950		4200	4000	200		
		18-22	4950		4200	3935	265		
		22-24	5350		4600	3935	665		
	7th May 2015 to 9th May 2015	00-05	5350	750	4600	3935	665		
		05-06'	4950		4200	3935	265		
		06-07'	4950		4200	4000	200		
		07-18'	4550		3800	4000	0		
		18-22	4550		3800	3935	0		
	10th May 2015	00-05	5350	750	4600	3935	665		
		05-06'	4950		4200	3935	265		
		06-18'	4950		4200	4000	200		
		18-22	4950		4200	3935	265		
		22-24	5350		4600	3935	665		
	11th May 2015	00-05	5350	750	4600	3935	665		
		05-06'	4950		4200	3935	265		
		06-18'	4650		3900	4000	0		
		18-22	4650		3900	3935	0		
		22-24	5050		4300	3935	365		
	12th May 2015	00-05	5350	750	4600	3935	665		
		05-06'	4950		4200	3935	265		
		06-18'	4800		4050	4000	50		
		18-22	4800		4050	3935	115		
		22-24	5200		4450	3935	515		
	13th May 2015	00-05	5350	750	4600	3935	665		
		05-06'	4950		4200	3935	265		
06-18'		4800	4050		4000	50			
18-22		4800	4050		3935	115			
22-24		5200	4450		3935	515			
14th May 2015 to 31st May 2015	00-05	5350	750	4600	3935	665			
	05-06'	4950		4200	3935	265			
	06-18'	4950		4200	4000	200			
	18-22	4950		4200	3935	265			
	22-24	5350		4600	3935	665			

### 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	4500		3800	999	2801		
NER	1st May 2015 to 31st May 2015	00-17 23-24 17-23	No limit is being Specified.						
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-Lakhisarai 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-Lakhisarai 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 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.
		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.

\*Primary constraints

**National Load Despatch Centre  
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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	12-Feb-15	Whole Month	Margin revised due to cancellation of LTA/MTOA	NR-WR/ ER-W3
2	2-Mar-15	Whole Month	STOA Margins revised due to grant of MTOA from Chattisgarh to KSEB by CTU.	W3-ER/ W3 Zone
			Revised due to commissioning of Vallur Unit-3	S1-S2
3	31-Mar-15	Whole Month	Revised considering the commissioning of Sasan Unit-6 and reviewed HVDC set points.	WR-NR
			Revised considering the commissioning of 765kV Pune-Sholapur S/C.	WR-SR
4	21-Apr-15	Whole Month	Revised considering revised thermal ratings of the lines in ER and expected flows on ER-NR corridor	ER-NR
5	27-Apr-15	Whole Month	Revised due to LGBR changes given in 106th OCC meeting.	S1-S2
6	30-Apr-15	Whole Month	Revised due to shutdown of 765kV Pune-Sholapur S/C and considering the present Maharashtra Demand pattern (1st May) & Revised considering the present Maharashtra Demand pattern (2nd-31st) .	WR-SR
		01-05-2015 to 03-05-2015	Revised due to shutdown of HVDC Vindhyachal BTB Block-2.	WR-NR
		Whole Month	on account of addition of new elements in NER Grid and change in load-generation balance.	ER-NER/ NER-ER
		01-05-15 to 02-05-15	Due to Extension of Vallur Unit -3 Outage	S1-S2
7	2-May-15	02-05-2015	Revised due to Emergency shutdown of Rihand-Dadri HVDC Pole-1.	WR-NR
8	2-May-15	02-05-15 to 03-05-15	Revised due to Extension of Vallur Unit -3 Outage	S1-S2
9	3-May-15	04-05-2015	Revised due to extension of HVDC Vindhyachal BTB Block-2 shutdown.	WR-NR
10	4-May-15	04-05-2015	Revised due to tripping of Mundra-Mahendragarh HVDC pole-2	WR-NR
		5/4/2015 to 5/6/2015	Revised due to NCTPS stage 2 Unit-1 Outage	S1-S2
11	4-May-15	04-05-2015	Due to revival of Mundra-mahendragarh pole 2 and Vindhyachal Block 2	WR-NR
12	6-May-15	7/5/2015 to 9/5/2015	Revised due to shutdown of 400kV Chandrapur-Ramagundam Ckt-1 (7th-8th) & Ckt-2 (9th).	WR-SR
		7/5/2015 to 8/5/2015	Revised due to shutdown of 765kV Bus-1 at Agra Substation.	WR-NR

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13	6-May-15	6/5/2015 to 7/5/2015	Revised due to Extension of NCTPS Stage 2 Unit-1 Outage.	S1-S2
14	7-May-15	07-05-2015	Revised due to revival of NCTPS Stage 2 Unit-1.	S1-S2
15	8-May-15	05-08-2015	Revised due to cancellation of 765kV Agra Bus-1 shutdown and due shutdown of Rihand-Dadri HVDC Pole-2.	WR-NR
		9/5/2015 to 10/5/2015	Revised due shutdown of Rihand-Dadri HVDC Pole-2.	
16	9-May-15	9/5/2015 to 11/5/2015	Revised due to Kudankulam Unit-1 Outage.	S1-S2
		10-05-2015	Revised due restoration of Rihand-Dadri HVDC Pole-2.	WR-NR
17	10-May-15	11-05-2015	Revised due to shutdown of 400 kV Jeypore - Gazuwaka Ckt-1 and 400 kV Angul - Bolangir S/C	ER-SR
		10-05-2015	Revised due to outage of NCTPS Stage 2 Unit -1	S1-S2
18	11-May-15	11/5/2015 to 15/5/2015	Due to Extension of KKNPP Unit-1 Outage	S1-s2
19	11-May-15	12-05-2015	Revised due to shutdown of 400 kV Jeypore - Gazuwaka Ckt-2	ER-SR
20	11-May-15	12-05-2015 to 14-05-2015	Revised due to shutdown of 400 kV SVCTM - Pondy S/C	S1-S2
21	12-May-15	11-05-2015 to 12-05-2015	Revised due to Outage of Vallur Unit -3	S1-S2
22	13-May-15	13-05-2015	Revised due to shutdown of Rihand-Dadri HVDC Pole-2.	WR-NR
		13-05-2015	Revised due to shutdown of 400kV Jeypore-Gazuwaka Ckt-2	ER-SR
		12-05-2015 to 15-05-2015	Revised due to Vallur Unit-2 Outage, revival of Kudankulam Unit-1 and 400kV SVCTM-Pondy SC line SD.	S1-S2
23	13-May-15	12-05-2015 to 15-05-2015	Revised due to Extension of Vallur Unit -2 & KKNPP Unit-1 Outage.	S1-S2



## 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)
<b>I</b>	<b>NORTHERN REGION</b>				
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
	<b>Total NR</b>	<b>44454</b>	<b>40812</b>	<b>38695</b>	<b>34965</b>
<b>II</b>	<b>EASTERN REGION</b>				
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
	<b>Total ER</b>	<b>17930</b>	<b>15490</b>	<b>23305</b>	<b>18445</b>
<b>III</b>	<b>WESTERN REGION</b>				
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
	<b>Total WR</b>	<b>45799</b>	<b>29717</b>	<b>53443</b>	<b>48026</b>

## 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)
<b>IV</b>	<b>SOUTHERN REGION</b>				
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
	<b>Total SR</b>	<b>35061</b>	<b>31323</b>	<b>32698</b>	<b>28673</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
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
	<b>Total NER</b>	<b>1596</b>	<b>1224</b>	<b>1475</b>	<b>1151</b>
	<b>Total All India</b>	<b>144840</b>	<b>118566</b>	<b>149616</b>	<b>131260</b>