

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

Issue Date: 07/03/2015

Issue Time: 2030 hrs

Revision No. 10

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 March 2015 to 31st March 2015	00-24	2500	500	2000	706	1294		
WR-NR	1st March 2015 to 31st March 2015	00-24	4200	500	3700	4768	0		
NR-ER*	1st March 2015 to 31st March 2015	00-06 18-24	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
ER-NR	1st March 2015 to 31st March 2015	00-17 23-24	3100	300	2800	2431	369		
		17-23	3200		2900		469		
W3-ER <sup>s</sup>	1st March 2015 to 4th March 2015	00-24	1800	300	1500	351	1149		
	5th March 2015 to 31st March 2015	00-24	1800	300	1500	583	917		
ER-W3	1st March 2015 to 31st March 2015	00-24	1000	300	700	874	0		
WR-SR##	1st March 2015 to 31st March 2015	00-24	2100	750	1350	1350	0		
SR-WR *	1st March 2015 to 31st March 2015	00-24	No limit is being Specified.						
ER-SR##	1st March 2015 to 31st March 2015	00-06 18-24	2650	0	2650	2585	65		
		06-18'				2650	0		
SR-ER *	1st March 2015 to 31st March 2015	00-24	No limit is being Specified.						
ER-NER	1st March 2015 to 31st March 2015	00-17 23-24	650	40	610	210	400		
		17-23	720		680		470		
NER-ER	1st March 2015 to 31st March 2015	00-17 23-24	990	30	960	0	960		
		17-23	1050		1010		1010		

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S1-S2	1st March 2015	00-10	2875	315	2560	2535	25		
		10-13'	2625		2310		0		
		13-22	2875		2560		25		
		22-24	3190		2875		340		
	2nd March 2015 to 3rd March 2015	00-24	3190	315	2875	2535	340		
	4th March 2015	00-1530	3190	315	2875	2535	340		
		1530-24	3485	315	3170	2644	526		
	5th March 2015	00-08	3485	315	3170	2644	526		
		08-18'	3335		3020		376		
		18-24	3485		3170		526		
	6th March 2015	00-24	3485	315	3170	2644	526		
	7th March 2015	00-09	3485	315	3170	2644	526		
		09-19	3340		3340	2644	696		
		19-24	3485		3170	2644	526		
8th March 2015 to 10th March 2015	00-24	3485	315	3170	2644	526	295	Revised due to extension of outage of Vallur Unit-2	
11th March 2015 to 31st March 2015	00-24	2875	315	2560	2535	25			
<b>Import of Punjab</b>	1st March 2015 to 31st March 2015	00-24	5700	300	5400	3790	1610		
<b>Import TTC for DD &amp; DNH</b>	1st March 2015 to 31st March 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
<b>W3 zone Injection ##</b>	1st March 2015 to 4th March 2015	00-17	9400	200	9200	6862	2338		
		23-24	9900		9700		2838		
	5th March 2015 to 31st March 2015	00-17	9400	200	9200	7094	2106		
		23-24	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 AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Pondicherry

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 Viduyut

## 232 MW MTOA w.e.f 01.03.2015 was approved by CTU. CERC vide order dated 16-02-2015 in petition no. 92/MP/2014 is under further implementation by CTU as per the timelines given in the order. Pending this any margins would be released for short term transactions on day ahead basis.

# 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-NEER	(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
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 March 2015 to 31st March 2015	00-17 23-24	7300	800	6500	6811	0		
		17-23	7400		6600		0		
NER	1st March 2015 to 31st March 2015	00-17 23-24	650	40	610	210	400		
		17-23	720		680		470		
WR									
SR##	1st March 2015 to 31st March 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 March 2015 to 31st March 2015	00-06 18-24	4500	700	3800	999	2801		
		06-18'			3800	1064	2736		
NER	1st March 2015 to 31st March 2015	00-17 23-24	990	30	960	0	960		
		17-23	1050	40	1010		1010		
WR									
SR *	1st March 2015 to 31st March 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).

## 232 MW MTOA w.e.f 01.03.2015 was approved by CTU. CERC vide order dated 16-02-2015 in petition no. 92/MP/2014 is under further implementation by CTU as per the timelines given in the order. Pending this any margins would be released for short term transactions on day ahead basis.

## Limiting Constraints

<b>NR</b>	<b>Import</b>	(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).
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
<b>NER</b>	<b>Import</b>	(n-1) contingency of Kahalgaon-Banka S/C
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
<b>SR</b>	<b>Import</b>	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

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

<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision</b>	<b>Corridor Affected</b>
1	29-12-2014	Whole Month	Margin revised due to change in LTA/MTOA.	NR-WR/ ER-W3/ W3-ER
			Margin revised due to COD of Sasan Unit-5.	WR-NR
2	12-02-2015	Whole Month	Margin revised due to cancellation of LTA/MTOA	NR-WR/ ER-W3
3	23-02-2015	Whole Month	Revised considering the LGBR changes given by constituents in 104th SRPC OCC meeting, Kudankulam Unit-1 and Energen Unit-1 Commissioning.	S1-S2
4	25-02-2015	Whole Month	Revised due to Commissioning of Vallur Unit-3.	S1-S2
			Revised considering full generation at Rihand/Singrauli complex.	WR-NR
5	28-02-2015	01-03-2015	Revised due to shutdown of 400kV Pugalur-Kalivendapattu Ckt-2	S1-S2
		Whole month	Revised due to commissioning of new transmission elements in NER.	ER-NER/ NER-ER
6	01-03-2015	1/3/2015 - 10/3/2015	Revised due to NCTPS Unit-1 Outage.	S1-S2
7	03-03-2015	5/3/2015 - 31/3/2015	STOA Margin revised due to grant of MTOA from Chattisgarh to KSEB by CTU.	W3 Zone/ W3-ER
		05-03-2015	Revised due to 220kV Kadakola - Kaniyampeta Shutdown.	S1-S2
8	04-03-2015	04/03/2014 - 07/03/2014	Revised due to outage of Vallur Unit - 2	S1-S2
9	06-03-2014	07-03-2014	Revised due to shutdown of 400kV Cudappah - Chittoor-Sriperumbudur S/C.	S1-S2
10	07-03-2014	08-03-2014 - 10-03-2014	Revised due to extension of outage of Vallur Unit-2	S1-S2

## ASSUMPTIONS IN BASECASE

Month : Mar '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	4960	3131	2800	2520
2	Haryana	5400	3758	1864	1677
3	Rajasthan	9200	8267	4974	4974
4	Delhi	3600	1700	935	935
5	Uttar Pradesh	10650	11162	5443	5443
6	Jammu & Kashmir	1850	1994	244	244
7	Uttarakhand	1650	1115	507	190
8	Himachal Pradesh	1186	812	177	64
9	Chandigarh	189	97	0	0
10	ISGS/PPs			15776	10793
	<b>Total NR</b>	<b>38685</b>	<b>32036</b>	<b>32720</b>	<b>26840</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	5218	5202	3734	3802
2	Jharkhand	985	749	427	435
3	Orissa	3677	2354	1597	1625
4	Bihar	2216	1605	104	106
5	Damodar Valley Corporation	2561	2354	3211	3269
6	Sikkim	79	43		
7	Bhutan	107	107	110	110
8	ISGS/PPs	513	511	8144	8100
	<b>Total ER</b>	<b>15356</b>	<b>12925</b>	<b>17327</b>	<b>17447</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	3117	2765	1915	2062
2	Madhya Pradesh	10300	5308	5801	1000
3	Maharashtra	20963	13907	16531	8763
4	Gujarat	11198	10475	8946	7757
5	Goa	425	339		
6	Daman and Diu	262	252		
7	Dadra and Nagar Haveli	608	596		
8	ISGS/PPs	1070	1070	22377	21836
	<b>Total WR</b>	<b>47943</b>	<b>34712</b>	<b>55570</b>	<b>41418</b>

## ASSUMPTIONS IN BASECASE

Month : Mar '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	Andhra Pradesh	5945	5241	5011	4762
2	Telangana	6351	5662	2707	2367
3	Tamil Nadu	12188	10362	6958	5865
4	Karnataka	8873	7418	7473	4852
5	Kerala	2699	2630	1249	1276
6	Pondy	330	319	0	0
7	Goa	89	88	0	0
8	ISGS/IPPs	0	0	9103	8630
	<b>Total SR</b>	<b>36475</b>	<b>31720</b>	<b>32501</b>	<b>27752</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Arunachal Pradesh	66	33	0	0
2	Assam	713	609	220	190
3	Manipur	74	49	0	0
4	Meghalaya	166	84	77	17
5	Mizoram	51	34	6	4
6	Nagaland	57	52	7	3
7	Tripura	227	153	103	100
8	ISGS/IPPs			1089	680
	<b>Total NER</b>	<b>1354</b>	<b>1015</b>	<b>1502</b>	<b>994</b>
	<b>Total All India</b>	<b>139813</b>	<b>112407</b>	<b>139620</b>	<b>114451</b>