

**National Load Despatch Centre**  
**Total Transfer Capability for August 2014**

Issue Date: 16/08/2014

Issue Time: 2100 hrs

Revision No. 15

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 August 2014 to 31st August 2014	00-24	2500	500	2000	651	1349			
WR-NR	1st August 2014	00-17	4900	500	4400	4380	20			
		23-24					4900			4400
	2nd August 2014	00-1215	4900	500	4400	4380	20			
		1215-24	3950		3450		0			
	3rd August 2014 to 31st August 2014	00-17	4900	500	4400	4380	20			
		23-24					4900			4400
NR-ER*	1st August 2014 to 7th August 2014	00-06	1000	200	800	293	507			
		06-17'			800	338	462			
		17-18'			1100	900	338			562
		18-23				900	293			607
		23-24			1000	800	293			507
	8th August 2014 to 31st August 2014	00-06	1000	200	800	293	507			
		06-17'			800	358	442			
		17-18'			1100	900	358			542
		18-23				900	293			607
		23-24			1000	800	293			507
ER-NR	1st August 2014 to 31st August 2014	00-17	3400	300	3100	2431	669			
		23-24					669			
		17-23					669			
W3-ER <sup>s</sup>	1st August 2014 to 31st August 2014	00-24	1700	300	1400	697	703			
ER-W3	1st August 2014 to 31st August 2014	00-24	1000	300	700	874	0			
WR-SR	1st August 2014 to 8th August 2014	00-24	2100	750	1350	1350	0			
	9th August 2014 to 10th August 2014	00-09	2100	750	1350	1350	0			
		09-24'					1700			950
	11th August 2014 to 31st August 2014	00-24	2100	750	1350	1350	0			
SR-WR *	1st August 2014 to 31st August 2014	00-24	No limit is being Specified.							
ER-SR	1st August 2014 to 7th August 2014	00-06	2650	0	2650	2069	581			
		18-24				2114	536			
		06-18'								
	8th August 2014	00-06	2650	0	2650	2089	561			
		18-24				2134	516			
		06-18'								
	9th August 2014 to 10th August 2014	00-06	2650	0	2650	2585	65			
		06-09'				2577	73			
		09-18'				2650	0			
		18-24				2650	0			
11th August 2014 to 31st August 2014	00-06	2650	0	2650	2512	138				
	18-24				2577	73				
SR-ER *	1st August 2014 to 31st August 2014	00-24	No limit is being Specified.							

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ER-NER	1st August 2014 to 6th August 2014	00-17	645	50	595	205	390			
		23-24								
		17-23						600	550	345
	7th August 2014	00-07	645	50	595	205	390			
		07-17	420		370		165			
		17-23	420		370		165			
		23-24	420		370		165			
	8th August 2014	00-17	420	50	370	205	165			
		17-23	420		370		165			
		23-24	420		370		165			
	ER-NER	9th August 2014	00-17	420	50	370	205	165		
			17-23	600		550		345		
23-24			645	595		390				
10th August 2014 to 31st August 2014		00-17	645	50	595	205	390			
		23-24								
		17-23	600		550		345			
NER-ER	1st August 2014 to 6th August 2014	00-17	500	100	400	0	400			
		23-24								
		17-23						490	390	390
	7th August 2014	00-07	500	100	400	0	400			
		07-17	270		170		170			
		17-23	240		140		140			
		23-24	270		170		170			
	8th August 2014	00-17	270	100	170	0	170			
		17-23	240		140		140			
		23-24	270		170		170			
	9th August 2014	00-17	270	100	170	0	170			
		17-23	490		390		390			
		23-24	500		400		400			
	10th August 2014 to 31st August 2014	00-17	500	100	400	0	400			
		23-24								
		17-23	490		390	390				

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S1-S2	1st August 2014	00-24	2415	295	2120	2525	0		
	2nd August 2014	00-13	2415	295	2120	2525	0		
		13-24	2700		2405		0		
	3rd August 2014	00-24	2700	295	2405	2525	0		
	4th August 2014	00-24	2700	295	2405	2614	0		
	5th August 2014	00-12	3030	295	2735	2527	208		
		12-24	2750		2455	2527	0		
	6th August 2014 to 8th August 2014	00-24	2750	295	2455	2527	0		
	9th August 2014	06-17	1965	295	1670	2761	0		
		00-06 17-2030	2750	295	2455	2761	0		
		2030-24	2415	295	2120	2761	0		
	10th August 2014	00-530	2415	295	2120	2761	0		
		530-18	2415		2120				
		18-23	2415		2120				
		23-24	2750		2455				
	11th August 2014	00-24	2750	295	2455	2761	0		
	12th August 2014 to 14th August 2014	00-24	2750	295	2455	2761	0		
	15th August 2014	00-24	3000	295	2705	2848	0		
	16th August 2014	00-21	3000	295	2705	2848	0		
		21-24	3250	295	2955	2848	107	250	
17th August 2014	00-06	3250	295	2955	2848	107	250	NCTPS-II Unit-1 Outage due to Boiler Tube leakage	
	06-18	2500		2205	2848	0	245		
	18-24	3250		2955	2848	107	250		
18th August 2014	00-12	3250	295	2955	2848	107	250		
	12-24	3000	295	2705	2848	0			
19th August 2014 to 22nd August 2014	00-24	3000	295	2705	2848	0			
23rd August 2014 to 24th August 2014	00-24	2970	295	2675	2837	0			
25th August 2014 to 31st August 2014	00-24	2970	295	2675	3048	0			
<b>Import of Punjab</b>	1st August 2014 to 31st August 2014	00-24	5700	300	5400	3790	1610		
<b>Import TTC for DD &amp; DNH</b>	1st August 2014 to 31st August 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
<b>W3 zone Injection</b>	1st August 2014 to 7th August 2014	00-17 23-24	9000	200	8800	7250	1550		
		17-23	9500		9300		2050		
	8th August 2014 to 31st August 2014	00-17 23-24	9000	200	8800	6843	1957		
		17-23	9500		9300		2457		

\* 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 Vidyt

# 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 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 Allahabad-Pusauli
ER-NR	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit flows on ER-WR-NR corridor.
W3-ER	(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 400kV Parli(PG)-Sholapur(PG) D/C 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 400 kV Balipara – Bongaigaon D/C leading to thermal loading of 220kV BTPS-Agia
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
S1-S2	(n-1) contingency 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 (800 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
<b>ER</b>									
<b>NR</b>	1st August 2014	00-17	8300	800	7500	6811	689		
		23-24			7500		689		
	2nd August 2014	00-17	8300	800	7500	6811	689		
		23-24			6550		0		
	3rd August 2014 to 31st August 2014	00-17	8300	800	7500	6811	689		
		23-24			7500		689		
<b>NER</b>	1st August 2014 to 6th August 2014	00-17	645	50	595	205	390		
		23-24			550		345		
	7th August 2014	00-07	420	50	595	205	390		
		07-17'			370		165		
		17-23			370		165		
		23'-24			370		165		
	8th August 2014	00-17	420	50	370	205	165		
		17-23			370		165		
		23 -24			370		165		
	9th August 2014	00-17	600	50	370	205	165		
		17-23'			550		345		
		23'-24			595		390		
	10th August 2014 to 31st August 2014	00-17	645	50	595	205	390		
		23-24			550		345		
	<b>WR</b>								
	<b>SR</b>	1st August 2014 to 7th August 2014	00-06	4750	750	4000	3419	581	
			18-24			4000		536	
			06-18'			4000		3464	
8th August 2014		00-06	4750	750	4000	3419	581		
		18-24			4000		516		
9th August 2014 to 10th August 2014		00-06	4750	750	4000	3862	138		
		06-09'			4000		73		
		09-18'			3600		0		
		18-24			3600		0		
11th August 2014 to 31st August 2014		00-06	4750	750	4000	3862	138		
	18-24	4000			73				

**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 August 2014 to 7th August 2014	00-06	3500	700	2800	590	2210		
		06-17'			2800	635	2165		
		17-18'	3600		2900	635	2265		
		18-23			2900	590	2310		
		23-24	3500		2800	590	2210		
	8th August 2014 to 31st August 2014	00-06	3500	700	2800	944	1856		
		06-17'			2800	1009	1791		
		17-18'	3600		2900	1009	1891		
		18-23			2900	944	1956		
		23-24	3500		2800	944	1856		
NER	1st August 2014 to 6th August 2014	00-17	500	100	400	0	400		
		23-24			390		390		
		17-23	490		390		390		
	7th August 2014	00-07	500	100	400	0	400		
		07-17	270		170		170		
		17-23	240		140		140		
		23-24	270		170		170		
	8th August 2014	00-17	270	100	170	0	170		
		17-23	240		140		140		
		23-24	270		170		170		
	9th August 2014	00-17	270	100	170	0	170		
		17-23	490		390		390		
		23-24	500		400		400		
	10th August 2014 to 31st August 2014	00-17	500	100	400	0	400		
		23-24			390		390		
		17-23	490		390		390		
	WR								
	SR *	1st August 2014 to 31st August 2014	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	<b>Import</b>	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit flows on ER-WR-NR corridor.
	<b>Export</b>	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).
NER	<b>Import</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	<b>Export</b>	(n-1) contingency of 400 kV Allahabad-Pusauli
SR	<b>Import</b>	1. (n-1) contingency of 400kV Parli(PG)-Sholapur(PG) D/C 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.

**National Load Despatch Centre**  
**Total Transfer Capability for August 2014**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	26-05-2014	Whole Month	Refer to explanatory notes regarding the change in TTC representation given in the last page.	ER-SR/ S1-S2
			Re-Routing of transactions on West-East-North Corridor discontinued on account of Inter-Regional Loop flows leading to physical congestion on WR-NR	W3-ER
2	13-06-2014	Whole Month	Revised due to change in Load Generation Balance and Commissioning of Sasan Unit-1.	WR-NR
3	26-07-2014	Whole Month	Revised due to commissioning of contingency arrangement of one 500 MW Vindhyachal (Unit-12) with 400kV Vindhyachal-Rihand line.	WR-NR
			Revised due to change in Load generation Balance and Transit flows on ER-WR-NR.	ER-NR
			Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C.	WR-SR
			Revised considering (a) 800MW generation at Vallur (b) 2nd Unit at NCTPS.	S1-S2
			Revised due to commissioning of 400/220KV 2X315MVA ICT at Kala S/S along with 220kV Kala-Sayali and 220KV Kala-Khadoli lines	Import of DD & DNH
			Revised due to change in Load-Generation balance and major network change due to commissioning of 400/220 kV Azara (Kukurmara) substation.	ER-NER
			Revised due to augmentation/ modifications in Punjab control area network.	Import of Punjab
4	30-07-2014	Whole Month	Revised based on further simulation. The LTA/MTOA figures are based on allocations, Talcher-II planned outage and the meetings on TTC/ATC taken by CTU on 24th and 30th Jul 2014. Any margins on account of less LTA/MTOA would be offered on day ahead basis.	WR-SR/ ER-SR
			STOA Margin revised due change in LTA/ MTOA/ Allocation.	ER-SR/ S1-S2
5	02-08-2014	02-08-2014	Revised due to Emergency shutdown of Rihand-Dadri Pole-2	WR-NR
		02/08/14 - 03/08/14	Revised due to tripping of NCTPS Unit-1	S1-S2
6	03-08-2014	04/08/14 - 05/08/14	Revised due to extended outage of NCTPS Unit-1	S1-S2
7	04-08-2014	05/08/14 - 31/08/14	Revised considering 400kV Tiruvalam-Kalivendapattu D/C and 400kV Kalivendapattu-Pugalur circuit-1	S1-S2
8	06-08-2014	07/08/14 - 09/08/14	Revised due to shutdown of 400 kV Balipara - Bongaigaon ckt 1	ER - NER/ NER -ER
9	07-08-2014	08/08/14- 31/08/14	STOA Margin revised due to correction in LTA/MTOA figures.	NR-ER/ ER-SR/ W3 Zone Injeccion
10	08-08-2014	09/08/2014 -	Revised due to shutdown of 400 kV Kolar - Hosur D/C line on daily basis on account of stringing works of 765 kV Dharmapuri- Madhugiri	S1-S2
		10/08/2014	Revised due to shutdown of 400 kV Ramagundam-Bhadravati ckt-2	WR-SR

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11	09-08-2014	09/08/14-10/08/14	Revised due to tripping of 400kV Kalivindapattu - Pugalur - 1 and cancellation of 400kV Kolar-Hosur D/C shutdown.	S1-S2
12	10-08-2014	11-08-2014	Revised due to expected revival of 400kV Kalivindapattu - Pugalur ckt-1	S1-S2
13	10-08-2014	10-08-2014 - 11/08/2014	Revised due to restoration of 400kV Kalivindapattu - Pugalur ckt-1	S1-S2
14	15-08-2014	17-08-2014	Revised due to shutdown of 400 kV Kolar - Hosur D/C line on account of stringing works of 765 kV Dharmapuri-Madhugiri	S1-S2
15	16-08-2014	16/08/14 - 18/08/14	Revised due to NCTPS-II Unit-1 Outage due to Boiler Tube leakage	S1-S2



## ASSUMPTIONS IN BASECASE

Month : Aug '14

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	8684	8580	2899	2882
2	Haryana	7640	7545	3372	3372
3	Rajasthan	7336	7246	5231	5267
4	Delhi	4819	4516	1296	1296
5	Uttar Pradesh	11500	11688	6015	5961
6	Jammu & Kashmir	2082	1961	576	568
7	Uttarakhand	1696	1577	887	834
8	Himachal Pradesh	1449	1431	849	830
9	Chandigarh	283	201	0	0
10	ISGS/PPs			19407	18615
	<b>Total NR</b>	<b>45489</b>	<b>44745</b>	<b>40532</b>	<b>39625</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	6713	5052	4765	3347
2	Jharkhand	1059	753	365	365
3	Orissa	3700	3261	3049	2512
4	Bihar	2167	1706	80	80
5	Damodar Valley Corporation	2325	2308	3524	3029
6	Sikkim	85	50	0	0
7	Bhutan	108	108	1425	1425
8	ISGS/PPs	300	300	9298	9070
	<b>Total ER</b>	<b>16457</b>	<b>13538</b>	<b>22506</b>	<b>19828</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh	2767	2215	1732	1326
2	Madhya Pradesh	6327	4793	4795	3686
3	Maharashtra	16000	12658	10208	6620
4	Gujarat	12030	9845	9648	7181
5	Goa	432	310		
6	Daman and Diu	284	191		
7	Dadra and Nagar Haveli	681	632		
8	ISGS/PPs	1255	1255	18016	17237
	<b>Total WR</b>	<b>39776</b>	<b>31899</b>	<b>44399</b>	<b>36050</b>

## ASSUMPTIONS IN BASECASE

Month : Aug '14

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	10892	9690	8223	6905
2	Tamil Nadu	11102	9769	7303	5712
3	Karnataka	7629	6617	7055	5681
4	Kerala	2963	2328	1651	1094
5	Pondy	310	274	0	0
6	Goa	80	80	0	0
7	ISGS/IPPs			8979	8978
	<b>Total SR</b>	<b>32976</b>	<b>28758</b>	<b>33211</b>	<b>28370</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Arunachal Pradesh	95	63		
2	Assam	1083	829	250	220
3	Manipur	110	77		
4	Meghalaya	260	182	210	120
5	Mizoram	75	52	12	4
6	Nagaland	100	77	24	18
7	Tripura	250	125	110	110
8	ISGS/IPPs			1310	966
	<b>Total NER</b>	<b>1973</b>	<b>1405</b>	<b>1916</b>	<b>1438</b>
	<b>Total All India</b>	<b>136671</b>	<b>120345</b>	<b>142564</b>	<b>125311</b>