

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

Issue Date: 04/04/2014

Issue Time: 1200 hrs

Revision No. 1

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 July 2014 to 31st July 2014	00-24	2500	500	2000	361	1639		
WR-NR	1st July 2014 to 31st July 2014	00-17	4200	500	3700	3656	44		
		23-24							
		17-23							
NR-ER*	1st July 2014 to 31st July 2014	00-17	1000	200	800	200	600		
		23-24							
		17-23							
ER-NR	1st July 2014 to 31st July 2014	00-17	4400	300	4100	2789	1311		
		23-24							
		17-23							
W3-ER	1st July 2014 to 31st July 2014	00-24	1900	300	1600	0	1600		
ER-W3	1st July 2014 to 31st July 2014	00-24	1000	300	700	700	0		
WR-SR	1st July 2014 to 31st July 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st July 2014 to 31st July 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st July 2014 to 31st July 2014	00-05	750	0	750	518	232		Margin revised due to grant of 69 MW LTA to Jindal Power Limited Tamnar
		10-19							
		05-10 19-24							
SR-ER *	1st July 2014 to 7th July 2014	00-24	1200	0	1200	148	1052		
	8th July 2014 to 9th July 2014								
	10th July 2014 to 31st July 2014								
ER-NER	1st July 2014 to 31st July 2014	00-17	520	50	470	230	240		
		23-24							
		17-23							
NER-ER	1st July 2014 to 31st July 2014	00-17	450	100	350	0	350		
		23-24							
		17-23							
S1-S2	1st July 2014 to 7th July 2014	00-24	6200	500	5700	5150	550		
	8th July 2014 to 9th July 2014								
	10th July 2014 to 31st July 2014								
Import of Punjab	1st July 2014 to 31st July 2014	00-24	5600	300	5300	3800	1500		
Import TTC for DD & DNH	1st July 2014 to 31st July 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st July 2014 to 31st July 2014	00-17	9000	200	8800	6884	1916		Margin revised due to grant of 69 MW LTA to Jindal Power Limited Tamnar
		23-24							
		17-23							

\* 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).

- 1) ER-SR TTC declared at Talcher Interconnector and Gazuwaka HVDC B/B seam
- 2) S1 comprises of AP and Karnataka; S2 comprises of Tamil Nadu, Kerala and Pondicherry
- 3) W3 comprises of the following regional entities :
  - a) Chattisgarh, b) Jindal Power Limited (JPL), 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

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# The figure is based on LTA/MTOA approved by CTU. In actual Operation, due to Units being on Maintenance/ Fuel shortage the LTA/MTOA utilized would be less. RLDC/ NLDC would factor this situation while issuing STOA approvals

**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 (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
NR-ER	(n-1) contingency of 400 kV Allahabad-Pusaali
ER-NR	(n-1) contingency of one circuit of 400kV Farakka –Malda S/C
W3-ER	(n-1) contingency of 400kV Sterilte-Rourkela S/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO) 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C
ER-NER	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
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 line, 400kV Hosur-Salem S/C and 400kV Somanahalli-Salem S/C line.
Import of Punjab	(n-1) contingency of ICT at Patiala/Moga
W3 zone Injection	(n-1-1) contingency of 400 kV Raipur-Bhadrawati D/C section

\*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 July 2014 to 31st July 2014	00-17 23-24	8600	800	7800	6445	1355		
		17-23	8600		7800		1355		
NER	1st July 2014 to 31st July 2014	00-17 23-24	520	50	470	230	240		
		17-23	520		470		240		
WR									
SR	1st July 2014 to 31st July 2014	00-05 10-19	1750	0	1750	1518	232		Margin revised due to grant of 69 MW LTA to Jindal Power Limited Tamnar
		05-10 19-24	1750		1750		232		

### 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 July 2014 to 31st July 2014	00-17 23-24	3500	700	2800	561	2239		
		17-23	3600		2900		2339		
NER	1st July 2014 to 31st July 2014	00-17 23-24	450	100	350	0	350		
		17-23	550		450		450		
WR									
SR-ER *	1st July 2014 to 7th July 2014	00-24	2200	0	2200	148	2052		
	8th July 2014 to 9th July 2014					197	2003		
	10th July 2014 to 31st July 2014					148	2052		

\* 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>	(n-1) contingency of one circuit of 400kV Farakka –Malda D/C High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
	<b>Export</b>	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	<b>Import</b>	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C
	<b>Export</b>	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	<b>Import</b>	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO). 3. Considering transfer capability assessment by CTU on NEW-SR corridor.
	<b>Export</b>	(n-1) and (n-1-1) contingencies of 400kV Talcher-Rourkela D/C

\*Primary constraints



## ASSUMPTIONS IN BASECASE

Month : June '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	8807	8517	3164	3203
2	Haryana	6743	6353	3958	3958
3	Rajasthan	7803	7383	5144	5134
4	Delhi	5199	5053	1382	1382
5	Uttar Pradesh	12165	12581	6115	6128
6	Jammu & Kashmir	1954	1798	546	564
7	Uttarakhand	1656	1509	496	491
8	Himachal Pradesh	1503	1361	852	821
9	Chandigarh	294	225	0	0
10	ISGS/IPPs			19790	17328
	<b>Total NR</b>	<b>46124</b>	<b>44780</b>	<b>41447</b>	<b>39009</b>
<b>II</b>	<b>EASTERN REGION</b>				
1	West Bengal	7059	4711	5170	4021
2	Jharkhand	1108	808	590	590
3	Orissa	3640	2570	3181	2432
4	Bihar	2030	1500	70.5	70.5
5	Damodar Valley Corporation	2460	2030	3179	2989
6	Sikkim	86	40		
7	Bhutan	109	109	1235	1235
8	ISGS/IPPs	245	245	8845	8315
	<b>Total ER</b>	<b>16737</b>	<b>12013</b>	<b>22270.5</b>	<b>19652.5</b>
<b>III</b>	<b>WESTERN REGION</b>				
1	Chattisgarh				
2	Madhya Pradesh				
3	Maharashtra				
4	Gujarat				
5	Goa				
6	Daman and Diu				
7	Dadra and Nagar Haveli				
8	ISGS/IPPs				
	<b>Total WR</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>IV</b>	<b>SOUTHERN REGION</b>				
1	Andhra Pradesh	10848	9446	6571	5881
2	Tamil Nadu	12152	10588	8026	7002
3	Karnataka	8397	7303	6100	4619
4	Kerala	3390	2595	1781	863
5	Pondy	329	278		
6	Goa	83	83		
7	ISGS/IPPs			11027	10260
	<b>Total SR</b>	<b>35199</b>	<b>30293</b>	<b>33505</b>	<b>28625</b>
<b>V</b>	<b>NORTH-EASTERN REGION</b>				
1	Arunachal Pradesh	120	84	0	0
2	Assam	1380	990	250	225
3	Manipur	125	88	0	0
4	Meghalaya	300	210	60	55
5	Mizoram	75	53	4	4
6	Nagaland	110	77	12	12
7	Tripura	230	130	110	110
8	ISGS/IPPs			1592	1262
	<b>Total NER</b>	<b>2340</b>	<b>1632</b>	<b>2028</b>	<b>1668</b>
	<b>Total All India</b>	<b>100400</b>	<b>88718</b>	<b>99250</b>	<b>88955</b>