

**National Load Despatch Centre
Total Transfer Capability for October 2013**

Issue Date: 03/10/2013

Issue Time: 1300 hrs

Revision No. 6

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 October 2013 to 31st October 2013	00-24	2500	500	2000	LTA -286 MW	1714		
WR-NR ¹	1st October 2013 to 31st October 2013	00-17 23-24	3700	500	3200	LTA - 3176 MW	24		
		17-23	3700		3200		24		
NR-ER*	1st October 2013 to 31st October 2013	00-17 23-24	1000	200	800	0	800		
		17-23	1100		900		900		
ER-NR	1st October 2013 to 31st October 2013	00-17 23-24	4000	300	3700	LTA- 2189 MW	1511		
		17-23					1511		
W3-ER	1st October 2013 to 31st October 2013	00-24	1800	300	1500	0	1500		
ER-W3	1st October 2013 to 31st October 2013	00-24	1000	300	700	700	0		
WR-SR	1st October 2013 to 31st October 2013	00-24	1000	0	1000	LTA: 316 MW MTOA: 684 MW Total:1000 MW	0		
SR-WR*	1st October 2013 to 31st October 2013	00-24	1000	0	1000		1000		
ER-SR	1st October 2013	00-05 10-19	700	0	700	LTA:35 MW, MTOA: 577 MW, Total- 612 MW	88		
		05-10 19-24	700		700		88		
	2nd October 2013 to 3rd October 2013	00-05 10-19	750	0	750	612	138		
		05-10 19-24	1250	200	1050		438		
	4th October 2013	00-05	750	0	750	612	138		
		05-06 19-24	1250	200	1050		438		
		06-10'	950	200	750		138	-300	Revised due to shutdown of 400 kV Meramundi-Angul-Bolangir
		10-19'	450	0	450		0	-300	
	05th October 2013	00-05 10-19	750	0	750	612	138		
		05-10 19-24	1250	200	1050		438		
	6th October 2013 to 16th October 2013	00-05 10-19	750	0	750	612	138		
		05-10 19-24	1250	200	1050		438		
17th October 2013 to 31st October 2013	00-05 10-19	830	0	830	612	218			
	05-10 19-24	830	0	830		218			
SR-ER*	1st October 2013 to 31st October 2013	00-17 23-24	800	0	800	197	603		
		17-23	900		900		703		
ER-NER	1st October 2013	00-08 23-24	680	35	645	LTA - 230 MW	415		
		08-17'	480		445		215		
		17-23	590		555		325		
	2nd October 2013 to 31st October 2013	00-17 23-24	680	35	645	230 MW	415		
17-23		590	555		325				
NER-ER	1st October 2013 to 31st October 2013	00-17 23-24	500	100	400	0	400		
		17-23	440		340		340		
S1-S2	1st October 2013 to 31st October 2013	00-24	5600	400	5200	LTA: 4100MW MTOA:700 MW Total: 4800 MW	400		
Import of Punjab	1st October 2013 to 31st October 2013	00-24	5600	300	5300	3800	1500		

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Import TTC for DD & DNH	1st October 2013 to 31st October 2013	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st October 2013 to 31st October 2013	00-17, 23-24	9000	200	8800	LTA-6162 MW, MTOA-1211 MW, Total- 7373 MW	1427		
		17-23	9500		9300		1927		

* 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)KWPLCL, M) DB Power, N) Vandana Vidyut

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 STOS approvals.

1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

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-Pusaui
ER-NR	(n-1) contingency of 400 kV Farakka-Malda
W3-ER	(n-1) contingency of 400kV Sterlite-Rourkela S/C
ER-W3	High loading of 400 kV Raipur-Bhadrawati T/C, Bhilai-Bhadrawati S/C, Bhilai-Koradi and Bhilai-Seoni* (n-1) contingency of 400kV Raigarh-Sterlite
WR-SR	Bhadrawati HVDC B/B link capacity
SR-WR	Bhadrawati HVDC B/B link capacity
ER-SR	Off-Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka Peak: 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka
SR-ER	
ER-NER	(n-1) contingency of 400/220 kV.315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon
NER-ER	(n-1) contingency of 400 kV Binaguri-Bongaigaon* Insufficient generating resources in NER
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 ¹	1st October 2013 to 31st October 2013	00-17 23-24 17-23	7700 7700	800	6900 6900	LTA-5365 MW	1535 1535		
NER	1st October 2013	00-08 23-24 08-17'	680 480	35	645 445	LTA-230 MW	415 215		
		17-23	590		555		325		
	2nd October 2013 to 31st October 2013	00-17 23-24 17-23	680 590	35	645 555	230	415 325		
WR									
SR	1st October 2013	00-05 10-19 05-10 19-24	1700 1700	0	1700 1700	LTA-351 MW, MTOA- 1261 MW, Total- 1612 MW	88 88		
	2nd October 2013 to 3rd October 2013	00-05 10-19 05-10 19-24	1750 2250	0 200	1750 2050	1612	138 438		
	4th October 2013	00-05 05-06 19-24 06-10'	1750 2250 1950	0 200 200	1750 2050 1750	1612	138 438 138		
		10-19'	1450	0	1450		0	-300	Revised due to shutdown of 400 kV Meramundi-Angul-Bolangir
	05th October 2013	00-05 10-19 05-10 19-24	1750 2250	0 200	1750 2050	1612	138 438		
	6th October 2013 to 16th October 2013	00-05 10-19 05-10 19-24	1750 2250	0 200	1750 2050	1612	138 438		
	17th October 2013 to 31st October 2013	00-05 10-19 05-10 19-24	1830 1830	0	1830 1830	1612	218 218		

1. WR-NR Total Transfer capability will be reduced to 3100 MW in case of outage of any one of the following sections:

- 765 kV Gwalior-Agra one circuit
- 765 kV Bina-Gwalior one circuit

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 October 2013 to 31st October 2013	00-17 23-24 17-23	3500 3600	700	2800 2900	286	2514 2614		
NER	1st October 2013 to 31st October 2013	00-17 23-24 17-23	500 440	100	400 340	0	400 340		
WR									
SR	1st October 2013 to 31st October 2013	00-17 23-24 17-23	1800 1900	0	1800 1900	197	1603 1703		

* 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).

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 STOS approvals.

Limiting Constraints

NR	Import	(n-1) contingency of 400 kV Faarakka-Malda* High loading of 765 kV Agra-Gwalior (1000 MW SPS setting on each circuit of 765 kV Gwalior-Agra)
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Allahabad-Pusauli
NER	Import	(n-1) contingency of 400/220 kV,315 MVA ICT at Misa* (n-1) contingency of 400 kV Binaguri-Bongaigaon
	Export	(n-1) contingency of 400 kV Binaguri-Bongaigaon* Insufficient generating resources in NER
SR	Import	Bhadrawati HVDC B/B link capacity Off-Peak(ER-side): 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka Peak(ER-side): 1. Talcher-Kolar HVDC Capacity; 2. (n-1) contingency of 400 kV Jeypore-Gazuwaka
	Export	

*Primary constraints

National Load Despatch Centre
Total Transfer Capability for October 2013

Revision No	Date of Revision	Period of revision	Reason for Revision	Corridor Affected
1	26/08/2013	Whole Month	Revised due to Allocation of 150 MW additional power to J&K.	WR-NR
2	28/08/2013	Whole Month	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).	NR-WR, NR-ER, SR-WR, SR-ER
3	10/09/2013	Whole Month	Revised due to commissioning of Sasan UMPP Unit 30	WR-NR
			Increase in share of Punjab from Sasan, DSTPS, Parbati-III	Import of Punjab
4	28/09/2013	Whole Month	Revised considering SPS setting of 1000 MW on each circuit of 765 kV Agra-Gwalior	WR-NR
		1st Oct	Revised considering present load generation balance and shutdown of 220 kV BTPS-Salakati D/C	ER-NER
5	30/09/2013	1st Oct - 16th Oct	Revised due to shutdown of Unit-1 of Talcher Stage-I and also due to change in LGBR	ER-SR
		Whole Month	Revised due to Non-Commissioning of Kudankulam Unit-1	S1-S2
		Whole Month	Margin revised considering reduction in MTOA quantum.	W3 zone Injection
6	03/10/2013	04th Oct	Revised due to shutdown of 400 kV Meramundli-Angul-Bolangir	ER-SR

ASSUMPTIONS IN BASECASE

Month : October '13

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	7000	4924	2546	2351
2	Haryana	5559	4660	2770	2770
3	Rajasthan	7051	6539	4002	4002
4	Delhi	3974	3720	1514	1514
5	Uttar Pradesh	11000	10322	6008	5756
6	Jammu & Kashmir	1876	1185	584	429
7	Uttarakhand	1543	902	713	340
8	Himachal Pradesh	1327	730	444	523
9	Chandigarh	224	118	0	0
10	ISGS/IPPs			16740	11303
	Total NR	39554	33100	35321	28988
II	EASTERN REGION				
1	West Bengal	4900	4500	4837	3944
2	Jharkhand	1110	770	561	561
3	Orissa	3500	2200	2430	1699
4	Bihar	1820	1320	0	0
5	Damodar Valley Corporation	2600	2035	3439	3039
6	Sikkim	40	40		
7	Bhutan	110	110	648	648
8	ISGS/IPPs	131	241	6494	6762
	Total ER	14211	11216	18409	16653
III	WESTERN REGION				
1	Chattisgarh	3181	2462	1804	1065
2	Madhya Pradesh	7637	5600	9905	7817
3	Maharashtra	15506	12500	4366	2928
4	Gujarat	11119	10121	11221	8374
5	Goa	432	281	0	0
6	Daman and Diu	245	208	0	0
7	Dadra and Nagar Haveli	604	471	0	0
8	ISGS/IPPs	590	590	16763	15466
	Total WR	39314	32233	44059	35650

IV	SOUTHERN REGION				
1	Andhra Pradesh	10900	9350	7204	6066
2	Tamil Nadu	11300	8617	6433	4962
3	Karnataka	7800	6499	5213	3549
4	Kerala	3225	2234	1917	760
5	Pondy	320	244	0	0
6	Goa	80	80	0	0
7	ISGS/IPPs			11130	10168
	Total SR	33625	27024	31897	25505
V	NORTH-EASTERN REGION				
1	Manipur	130	91	0	0
2	Meghalaya	280	196	110	95
3	Mizoram	85	60	8	4
4	Nagaland	120	84	20	10
5	Assam	1350	970	220	180
6	Tripura	260	130	100	100
7	Arunachal Pradesh	130	91	0	0
8	ISGS/IPPs			1020	735
	Total NER	2355	1622	1478	1124
	Total All India	129059	105195	131164	107920