National Load Despatch Centre Total Transfer Capability for October 2013

NR-WR* 1st October 2013 to 31st October 2013 00-24 2500 500 2000 LTA -286 MW 1714 WR-NR¹ 1st October 2013 to 31st October 2013 00-17 23-24 3700 500 3200 LTA - 3176 MW 24 17-23 3700 3200 3200 24 24	Comments
WR-NR ¹ 31st October 2013 to 3700 500 5200 LTA - 3176 MW 24	
17 25 3700 3200 21	
NR-ER* 1st October 2013 to 31st October 2013 17-23 1100 200 900 900 900	
1st October 2013 to 23-24 4000 300 3700 LTA- 2189 MW 1511 1511	
27th October 2013 00-09' 4000 300 3700 2189 1511 511 511	
ER-NR 28th October 2013 to 29th October 2013 00-24 3000 300 2700 2189 511	vised due to Shutdown of 400 kV
30th October 2013 to 30 00-24 3300 300 3000 2189 811 300 Farakka	kka-Malda Ckt-I and considerig the present power flow pattern
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 0	
SR-WR* 1st October 2013 to 31st October 2013 00-24 1000 0 1000 0 1000	
1st October 2013 00-05 10-19 700 0 700 LTA:35 MW, 88 MTOA: 577 MW, Total- 612 MW 88	
19-24 760 760 68 2nd October 2013 to 10-19 750 0 750 138	
3rd October 2013 05-10 19-24 1250 200 1050 438 00-05 750 0 750 138	
4th October 2013 19-24 1250 200 1050 612 438	
06-10' 950 200 750 138 10-19' 450 0 450 0	
05th October 2013 00-05 750 0 750 138	
1 05-10 1	
10.24 1250 200 1050 438	
ER-SR	
ER-SR 19-24 1250 200 1050 438	
ER-SR 19-24 1250 200 1050 4.38	
ER-SR 19-24 1250 200 1050 4.38	
ER-SR 19-24 1250 200 1050 4.38	
ER-SR 19-24 1250 200 1050 438	
ER-SR 19-24 1250 200 1050 4.38	

National Load Despatch Centre Total Transfer Capability for October 2013

Issue Date: 29/10/2013 Issue Time: 1400 hrs Revision No. 11

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
		00-08							
	1st October 2013	23-24	680	35	645	230	415		
	1st October 2015	08-17'	480	33	445	230	215		
		17-23	590		555		325		
ER-NER	2nd October 2013 to 31st October 2013	00-17 23-24	680	35	645	230	415		
	318t October 2013	17-23	590		555		325		
	30th October 2013 to 31st October 2013	00-17 23-24	550	35	35 515	230	285	-130	Revised due to Shutdown of 400 kV Farakka-Malda Ckt-I and considerig
		17-23	330	33			263	-40	the present power flow pattern
NER-ER	1st October 2013 to	00-17 23-24	500	100	400	0	400		
	31st October 2013	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		
Import TTC for DD & DNH	1st October 2013 to 31st October 2013	00-24	980	0	980	LTA and MTO			
W3 zone Injection	1st October 2013 to 31st October 2013	00-17, 23-24	9000	200	8800	LTA-6162 MW, MTOA-1211 MW,	1427		
		17-23	9500		9300	Total- 7373 MW	1927		hones determined (Dileteral &

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

- 1) ER-SR 11C 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)KWPCL, M) DB Power, N) Vandana Vidyut

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-Pusauli
ER-NR	High loading of 400 kV Farakka-Malda Ckt 2
W3-ER	(n-1) contingency of 400kV Sterilte-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	High loading of 400 kV Farakka-Malda Ckt 2
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

[#] 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 les. RLDC/ NLDC would factor this situation while issuing STOS approvals.

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									
-		00-17							
	1st October 2013 to 26th October 2013	23-24	7700	800	6900	LTA-5365 MW	1535		
		17-23	7700		6900		1535		
	27th October 2013	00-09'	7700	800	6900	5365	1535		
NR ¹		09-24'	6700		5900		535		
IVIX.	28th October 2013 to	00-17 23-24	6700	800	5900	5365	535		
	29th October 2013	17-23	6700		5900		535		
	30th October 2013 to	00-17 23-24	7000		6200		835		Revised due to Shutdown of 400 kV Farakka-Malda Ckt-I and
	31st October 2013	17-23	7000	800	6200	5365	835	300	considerig the present power flow pattern
		00-08 23-24	680		645		415		
	1st October 2013	08-17'	480	35	445	LTA-230 MW	215		
		17-23 00-17	590		555		325		
NER	2nd October 2013 to 31st October 2013 30th October 2013 to 31st October 2013	23-24	680	35	645	230	415		
		17-23	590		555		325		Revised due to Shutdown of 400
		00-17 23-24	550	35	515		285	-130	kV Farakka-Malda Ckt-I and considerig the present power
		17-23	550		515		285	-40	flow pattern
WR									
		00-05 10-19	1700	0	1700	LTA-351 MW,	88		
	1st October 2013	05-10 19-24	1700		1700	MTOA- 1261 MW, Total- 1612 MW	88		
	2nd October 2013 to	00-05 10-19	1750	0	1750	1612	138		
	3rd October 2013	05-10 19-24	2250	200	2050		438		
		00-05	1750	0	1750		138		
		05-06 19-24	2250	200	2050	1612	438		
	4th October 2013	06-10'	1950	200	1750		138		
		10-19'	1450	0	1450		0		
		00-05 10-19	1750	0	1750		138		
SR	05th October 2013	05-10 19-24	2250	200	2050	1612	438		
	6th October 2013 to	00-05 10-19	1750	0	1750	1612	138		
	14th October 2013	05-10 19-24	2250	200	2050	1012	438		
	15th O-t-h 2012	00-05 10-19	1750	0	1750	1612	138		
	15th October 2013	05-10 19-24	2250	0	2250	1612	638		
	16th October 2013	00-05 10-19	1750	0	1750	1612	138		
	2011 0010001 2010	05-10 19-24	2250	200	2050	1012	438		
	17th October 2013 to	00-05 10-19	1750	0	1750	1610	138		
	31st October 2013	05-10 19-24	2250	200	2050	1612	438		

I. 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	3500	700	2800	286	2514		
	318t October 2013	17-23	3600		2900		2614		
NER	1st October 2013 to	00-17 23-24	500	100	400	0	400		
	31st October 2013	17-23	440		340		340		
WR									
WK									
SR	1st October 2013 to	00-17 23-24	1800	0	1800	197	1603		
	31st October 2013	17-23	1900		1900		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).

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
NEK	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
ľ	Export	

^{*}Primary constraints

[#] 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 les. RLDC/ NLDC would factor this situation while issuing STOS approvals.

Limiting 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 Increase in share of Punjab from Sasan, DSTPS, Parbati-III	WR-NR Import of Punjab
4	Whole		Revised considering SPS setting of 1000 MW on each circuit of 765 kV Agra-Gwalior	WR-NR
4 28/09/2013		1st Oct	Revised considering present load generation balance and shutdown of 220 kV BTPS-Salakati D/C	ER-NER
		1st Oct - 16th Oct	Revised due to shutdown of Unit-1 of Talcher Stage-I and also due to change in LGBR	ER-SR
5	30/09/2013	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
7	14/10/2013	15th Oct	Revised due to reduced Voltage mode Operation of Talcher-Kolar HVDC	ER-SR
8	14/10/2013	15th Oct	Revised due to lifting of reduced Voltage mode Operation of Talcher-Kolar HVDC	ER-SR
9	16/10/2013	17th Oct - 31st Oct	Revised due to change in Load Generation Balance.	ER-SR
10	26/10/2013	27th Oct - 31st Oct	Revised due to Shutdown of 400 kV Farakka-Malda Ckt-I	ER-NR
11	29/10/2013	30th Oct- 31st Oct	Revised due to Shutdown of 400 kV Farakka-Malda Ckt-I and considerig the present power flow pattern	ER-NR, ER-NER

ASSUMPTIONS IN BASECASE

Month: October '13

	me of State/Area	Peak Load (MW)	off Peak Load (MW)	Gener	ation Off Peak
I NO	RTHERN REGION		Load	Peak (MW)	Off Peak
			(14144)	()	(MW)
1 Punish					
i li dilijab		7000	4924	2546	2351
2 Haryana	ì	5559	4660	2770	2770
3 Rajasth	an	7051	6539	4002	4002
4 Delhi		3974	3720	1514	1514
5 Uttar Pr	adesh	11000	10322	6008	5756
6 Jammu	& Kashmir	1876	1185	584	429
7 Uttarakl	nand	1543	902	713	340
8 Himach	al Pradesh	1327	730	444	523
9 Chandiç	garh	224	118	0	0
10 ISGS/IP	Ps			16740	11303
Total N	R	39554	33100	35321	28988
II EA	STERN REGION				
1 West Be	engal	4900	4500	4837	3944
2 Jharkha	nd	1110	770	561	561
3 Orissa		3500	2200	2430	1699
4 Bihar		1820	1320	0	0
5 Damoda	ar Valley Corporation	2600	2035	3439	3039
6 Sikkim		40	40		
7 Bhutan		110	110	648	648
8 ISGS/IP	Ps	131	241	6494	6762
Total E	₹	14211	11216	18409	16653
III WE	ESTERN REGION				
1 Chattisg	arh	3181	2462	1804	1065
2 Madhya	Pradesh	7637	5600	9905	7817
3 Mahara	shtra	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 a	nd Nagar Haveli	604	471	0	0
8 ISGS/IP	Ps	590	590	16763	15466
Total W	R	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
٧	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
	T				
	Total All India	129059	105195	131164	107920