

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

Issue Date:26/11/2014

Issue Time: 1300 hrs

Revision No. 28

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 November 2014 to 30th November 2014	00-24	2500	500	2000	297	1703			
WR-NR	1st November 2014	00-17	3500	500	3000	4380	0			
		17-19	3500		3000		0			
		19-23	3900		3400		0			
		23-24	3900		3400		0			
	2nd November 2014	00-17	4900	500	4400	4380	20			
		17-23	4900		4400		20			
	3rd November 2014 to 7th November 2014	00-17	4500	500	4000	4380	0			
		17-23	4500		4000		0			
	8th November 2014	00-09	4500	500	4000	4380	0			
		09-19	4900		4400		20			
		19-23	4900		4400		20			
		23-24	4900		4400		20			
	9th November 2014 to 26th November 2014	00-17	4900	500	4400	4380	20			
		17-23	4900		4400		20			
27th November 2014 to 30th November 2014	00-07	4900	500	4400	4380	20		1.Revised due to shutdown of Mundra-Mohindergarh HVDC Pole-1. 2.In case of low generation at Rihand/Singrauli complex, TTC will be revised accordingly. 3. The TTC value will be revised to normal values after restoration of shutdown.		
	07-24	4100		3600		0			-800	
NR-ER*	1st November 2014 to 30th November 2014	00-06	1000	200	800	293	507			
		06-17			800	338	462			
		17-18	1100		900	338	562			
		18-23	1100		900	293	607			
		23-24	1000		800	293	507			
ER-NR	1st November 2014 to 30th November 2014	00-17	3400	300	3100	2431	669			
		23-24					669			
		17-23					669			
W3-ER ⁵	1st November 2014 to 30th November 2014	00-24	1900	300	1600	351	1249			
ER-W3	1st November 2014 to 30th November 2014	00-24	1000	300	700	874	0			
WR-SR	1st November 2014	00-18	2100	750	1350	1350	0			
		18-24	1600	750	850	1350	0			
	2nd November 2014 to 30th November 2014	00-24	2100	750	1350	1350	0			
SR-WR *	1st November 2014 to 30th November 2014	00-24	No limit is being Specified.							
ER-SR	1st November 2014 to 14th November 2014	00-06 18-24	2000	0	2000		2585	0		
		06-18					2650	0		
	15th November 2014 to 30th November 2014	00-06 18-24	2000	0	2000		2435	0		
06-18	2500	0								
SR-ER *	1st November 2014 to 30th November 2014	00-24	No limit is being Specified.							

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ER-NER	1st November 2014 to 14th November 2014	00-17	700	40	660	210	450		
		23-24							
		17-23	500		460		250		
	15th November 2014	00-07	700	40	660	210	450		
		23-24							
		07-17.	580		540		330		
		17-23	500		460		250		
	16th November 2014	00-07	700	40	660	210	450		
		23-24							
		07-17.	700		660		450		
		17-23	500		460		250		
	17th November 2014 to 30th November 2014	00-17	700	40	660	210	450		
23-24									
17-23		500	460		250				
NER-ER	1st November 2014 to 14th November 2014	00-17	530	30	500	0	500		
		23-24							
		17-23	600	40	570		570		
	15th November 2014	00-07	530	30	500	0	500		
		23-24							
		07-17.	250		220		220		
		17-23	600	40	570		570		
	16th November 2014	00-07	530	30	500	0	500		
		23-24							
		07-17.	530		500		500		
		17-23	600	40	570		570		
	17th November 2014 to 30th November 2014	00-17	530	30	500	0	500		
23-24									
17-23		600	40	570	570				
S1-S2	1st November 2014	00-21	3465	285	3180	3086	94		
		21-22	3200		2915	2977	0		
		22-24	3465		3180	3086	94		
	2nd November 2014	00-07	3465	285	3180	3086	94		
		07-10'	3465		3180	3086	94		
		10-24'	3200		2915	2977	0		
	3rd November 2014	00-20	3200	285	2915	2977	0		
		20-24	3200		2915	2977	0		
		0000-0400	3200		2915	2868	0		
	4th November 2014	0400-1330	3000	285	2715	2868	0		
		1330-1800	3110		2825	2977	0		
		18-24	3110		2825	2977	0		
		00-08'	2850		285	2565	2868	0	
	08'-18	2750	2465	0					
	5th November 2014	00-21	2850	285	2565	2791	0		
		21-24	3110		2825	2900	0		
	6th November 2014	00-24	3110	285	2825	2900	0		
		00-10	3110		2825	2900	0		
	8th November 2014	10-19'	3340	285	3055	2900	155		
		19-24	3340		3055	2900	155		
		00-07	3340		3055	2900	155		
	9th November 2014	07-18'	3340	285	3055	2900	155		
		18-24'	3070		2785	2791	0		
	10th November 2014 to 11th November 2014	00-24	3070	285	2785	2791	0		
	12th November 2014	00-10	3070	285	2785	2881	0		
		1000-1630	2900		2615	2881	0		
		1630-2400	3070		2785	2881	0		
	13th November 2014	00-24	3070	285	2785	2881	0		
	14th November 2014	00-24	3070	285	2785	2804	0		
	15th November 2014	00-24	3070	285	2785	2704	81		
	16th November 2014	00-24	3070	285	2785	2704	81		
17th November 2014	00-22	3070	285	2785	2704	81			

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	17th November 2014	22-24	3340	285	3055	2813	242		
	18th November 2014	00-24	3340	285	3055	2813	242		
	19th November 2014	00-24	3340	285	3055	2849	206		
	20th November 2014	00-12	3340	285	3055	2849	206		
		12-24	3070		2785	2740	45		
	21st November 2014 to 22nd November 2014	00-24	3070	285	2785	2740	45		
	23rd November 2014	0000-0830	3070	285	2785	2740	45		
		0830-1400	2850		2565	2740	0		
		1400-1730	3130		2845	2849	0		
		1730-2145	3340		3055	2849	206		
		2145-2400	3130		2845	2849	0		
	24th November 2014	0000-0630	3130	285	2845	2849	0		
		0630-1400	3340		3055	2849	206		
		14-24	3340		3055	2849	206		
	25th November 2014	00-20	3340	285	3055	2849	206		
		20-24	3340	285	3055	2849	206	270	Revision due to Vallur Unit-2
	26th November 2014	00-07	3340	285	3055	2849	206	270	Outage Extension
07-24		3070	285	2785	2740	45			
27th November 2014	00-24	3070	285	2785	2740	45			
28th November 2014 to 30th November 2014	00-24	3070	285	2785	2817	0			
Import of Punjab	1st November 2014 to 30th November 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st November 2014 to 30th November 2014	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st November 2014 to 12th November 2014	00-17	9400	200	9200	6843	2357		
		23-24					2857		
	13th November 2014	17-23	9900	200	9700	6843	1457		
		08-17	8500		8300		2357		
		23-24	9400		9200		1457		
		00-08	8500		8300		2357		
	14th November 2014 to 30th November 2014	00-17	9400	200	9200	6843	2357		
23-24		2857							
		17-23	9900		9700				

* 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).

\$ 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) 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 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 Vidyut

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.

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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 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-NER	Palatana unit tripping leading to the thermal overloading of 220 kV BTPS - Salakati D/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and High loading of 220kV Misa-Samaguri D/C
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)
	(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 November 2014	00-17	6900	800	6100	6811	0			
		17-19	6900		6100		0			
		19-23'	7300		6500		0			
		23-24	7300		6500		0			
	2nd November 2014	00-17	8300	800	7500	6811	689			
		23-24			7500		689			
	3rd November 2014 to 7th November 2014	00-17	7900	800	7100	6811	289			
		23-24			7100		289			
	8th November 2014	00-17	7900	800	7100	6811	289			
		17-19'	7900		7100		289			
		19-23	8300		7500		689			
		23-24'	8300		7500		689			
	9th November 2014 to 26th November 2014	00-17	8300	800	7500	6811	689			
		23-24			7500		689			
	27th November 2014 to 30th November 2014	00-07	8300	800	7500	6811	689		Revised due to shutdown of Mundra-Mohindergarh HVDC Pole-1.	
		07-24'			7500		6700			0
	NER	1st November 2014 to 14th November 2014	00-17	700	40	660	210	450		
			23-24			660		250		
15th November 2014		00-07	700	40	660	210	450			
		23-24			660		330			
		07-17.			580		460			250
16th November 2014		00-07	700	40	660	210	450			
		23-24			660		450			
		07-17.			400		460			250
17th November 2014 to 30th November 2014		00-17	700	40	660	210	450			
		23-24			660		250			
			17-23	500	40	460	210	250		
WR										
SR	1st November 2014	00-06	4100	750	3350	3935	0			
		18-24	3600		2850	3935	0			
		06-18'	4100		3350	4000	0			
	2nd November 2014 to 14th November 2014	00-06	4100	750	3350	3935	0			
		18-24			3350	4000	0			
	15th November 2014 to 30th November 2014	00-06	4100	750	3350	3785	0			
18-24		3350			3850	0				
		06-18'	4100		3350	3850	0			

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 November 2014 to 30th November 2014	00-06	3500	700	2800	644	2156			
		06-17'			2800	689	2111			
		17-18'	3600		2900	689	2211			
		18-23			2900	644	2256			
		23-24			2800	644	2156			
NER	1st November 2014 to 14th November 2014	00-17	530	30	500	0	500			
		23-24	600	40	570		570			
	15th November 2014	00-07	530	30	500	0	500			
		23-24	250		220		220			
		07-17.	600	40	570		570			
	16th November 2014	00-07	530	30	500	0	500			
		23-24	530		500		130			
		07-17.	600	40	570		570			
	17th November 2014 to 30th November 2014	00-17	530	30	500	0	500			
		23-24	600		40		570			570
	WR									
SR *	1st November 2014 to 30th November 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	Import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) due to transit
	Export	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop (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 kV Balipara – Bongaigaon leading to thermal loading of 220kV BTPS-Agia S/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa
SR	Import	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-

*Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	22-10-2014	Whole month	Revised due to commissioning of 765kV Sholapur-Raichur Circuit-2 and 765kV Wardha-Aurangabad D/C. The LTA/MTOA figures are based on allocations and the meetings on TTC/ATC taken by CTU on 24th and 30th Jul 2014.	WR-SR
			Revised due to the shutdown of 400 kV Jeypore - Gazuwaka on tower collapse & LTA/MTOA revised by CTU.	ER-SR
			Revised due to commissioning of 400kV Kalivendapattu-Pugalur ckt - 2 and 400/230 kV Tiruvalam downstream & Revised LGBR by constituents.	S1-S2
2	26-10-2014	01-10-2014	Revised due to the shutdown of HVDC Rihand-Dadri Pole-1	WR-NR
		03-10-2014 to 8-10-2014	Revised due to the shutdown of HVDC Rihand-Dadri Pole-2	
3	31-10-2014	31-10-2014	Revised considering anticipated load crash in the western region during cyclone Nilofar.	WR-NR
		Whole month	Revised considering network restructuring in NER region	ER-NER
4	01-11-2014	01-11-2014	Revised due to Vallur Unit-1 & Unit-2 Outage on BTL	S1-S2
		02-11-2014	Revised due to Vallur Unit-2 Outage on BTL	
		03/11/14 to 30/11/14	STOA margin revised due to MAPS Unit#1 Annual outage plan Postponement.	
5	01-11-2014	01-11-2014	Revised due to tripping of HVDC Bhadrawati Pole 2	WR-SR
		Whole month	Revised considering network restructuring in NER region	NER-ER
6	01-11-2014	01/11/14 to 02/11/14	Revised due to extension of outage of Vallur	S1-S2
7	02-11-2014	02-11-2014	Revised due to extension of outage of Vallur Unit 1	S1-S2
8	02-11-2014	03-11-2014	Revised due to extension of outage of Vallur Unit 1	S1-S2
9	03-11-2014	03-11-2014 to 04-11-2014	Revised due to extension of Vallur unit 1 outage	S1-S2
10	04-11-2014	04-11-2014	Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu and Vallur unit 1 outage extension	S1-S2
		05-11-2014	Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu and shutdown of 220 kV Kadakola - Kaniyimpeta	
		06-11-2014 to 11-11-2014	Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu	

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11	04-11-2014	04-11-2014	Revised due to extension of Vallur unit 1 outage	S1-S2
12	06-11-2014	06/11/2014 - 07/11/2014	Revised due to extension of Vallur Unit-2 outage	S1-S2
13	07-11-2014	08-11-2014	Revised due to extension of Vallur Unit-2 outage	S1-S2
14	08-11-2014	08-11-2014	Revised due to completion of AMP work on Rihand-Dadri HVDC Pole-2 WR-NR	WR-NR
		08-11-2014	Revised due to Tripping of NCTPS Stage 2 Unit -1 and Vallur Unit Outage Extension.	S1-S2
		09/11/2014 - 15/11/2014	Revised due to Tripping of NCTPS Stage 2 Unit -1.	
15	09-11-2014	09-11-2014	Revised due to Vallur unit-2 outage Extension	S1-S2
16	12-11-2014	12-11-2014	Revised due to shutdown of 400 kV Kolar - Somanhally	S1-S2
		13-11-2014	Revised due to shutdown of 400 kV Seoni- Bhilai	W3 zone injection
17	13-11-2014	14/11/2014 - 30/11/2014	LTA quantums are revised due to Unit Outage Plan changes in SRPC's 101st OCC Meeting.	S1-S2
18	14-11-2014	15/11/2014 - 16/11/2014	Revised due to shutdown of 400 kv Balipara – Misa D/C and 220 kv Samaguri – Sarusajai D/C	ER-NER/ NER-ER
19	14-11-2014	15/11/2014 - 30/11/2014	LTA Quantum revised due to shutdown of U-1 & 2 of JPL.	ER-SR
			Revised due to NCTPS Unit-1 outage is extension & LTA quantum of 150 MW from JPL (WR) to Tamil nadu is revised to zero due to Unit outage	S1-S2
20	15/11/2014	15/11/2014	For availing S/D of 400 kv Misa-Balipara 1 instead of 400 kv Misa-Balipara D/C and 220 KV Samaguri-Sarsujai D/C	ER-NER/NER-ER
		16/11/2014	Due to cancellation of 400 kv Misa-Balipara D/C and 220 KV Samaguri-Sarsujai D/C	ER-NER/NER-ER
21	17/11/2014	17/11/2014 - 18/11/2014	Revised due to outage of Vallur unit 2	S1-S2
22	18-11-2014	19-11-2014	Revised due to extension of Vallur unit 2 outage	S1-S2
23	19-11-2014	20-11-2014	Revised due to extension of Vallur unit 2 outage	S1-S2
24	23-11-2014	23-11-2014	Revised due to Emergency Shut-Down of 400kV Kalivindhappattu - Pugalur-2	S1-S2
25	23-11-2014	23/11/2014 - 24/11/2014	Revised due to outage of Vallur unit-2.	S1-S2
26	23-11-2014	23/11/2014 - 24/11/2014	Revised due to 400kV Kalivindhappattu - Pugalur -2 Outage	S1-S2
27	24-11-2014	25-11-2014	Revised due to the extension of Vallur unit 2 outage	S1-S2

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28	26-11-2014	25/11/2014- 26/11/2014	Revision due to Vallur Unit-2 Outage Extension	S1-S2
		27/11/2014- 30/11/2014	Revised due to shutdown of Mundra-Mohindergarh HVDC Pole-1.	WR-NR