

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

Issue Date: 03/11/2014

Issue Time: 1900 hrs

Revision No. 9

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		
		23-24	4900		4400		20		
	3rd November 2014 to 7th November 2014	00-17	4500	500	4000	4380	0		
		23-24	4500		4000		0		
	8th November 2014	00-17	4500	500	4000	4380	0		
		17-19	4500		4000		0		
		19-23	4900		4400		20		
		23-24	4900		4400		20		
	9th November 2014 to 30th November 2014	00-17	4900	500	4400	4380	20		
		23-24	4900		4400		20		
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			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		
W3-ER ^s	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 30th November 2014	00-06	2000	0	2000	2585	0		
		18-24				2650	0		
SR-ER *	1st November 2014 to 30th November 2014	00-24	No limit is being Specified.						
ER-NER	1st November 2014 to 30th November 2014	00-17	700	40	660	210	450		
		23-24	500		460		250		
NER-ER	1st November 2014 to 30th November 2014	00-17	530	30	500	0	500		
		23-24	600		570		570		

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S1-S2	1st November 2014	00-21	3465	285	3180	3086	94	200	Revised due to extension of Vallur unit 1 outage
		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		
	4th November 2014	00-04	3200	285	2915	2977	0		
		04-24	3000	285	2715	2868	0		
	5th November 2014	00-24	3000	285	2715	2868	0		
	6th November 2014 to 11th November 2014	00-24	3000	285	2715	2791	0		
	12th November 2014 to 19th November 2014	00-24	3000	285	2715	2881	0		
20th November 2014 to 26th November 2014	00-24	3000	285	2715	2916	0			
27th November 2014 to 30th November 2014	00-24	3000	285	2715	2839	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 30th November 2014	00-17	9400	200	9200	6843	2357		
		23-24			9700		2857		
		17-23	9900						

* 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) KWPC, n)Vandana Vidut

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.

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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-Pusaui
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)
W3 zone Injection	(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			
		17-23			8300		7500			689
	3rd November 2014 to 7th November 2014	00-17	7900	800	7100	6811	289			
		23-24			7100		289			
		17-23			7900		7100			289
		00-17			7900		7100			289
	8th November 2014	17-19'	8300	800	7100	6811	289			
		19-23			7500		689			
		23-24'			8300		7500			689
		00-17			8300		7500			689
9th November 2014 to 30th November 2014	00-17	8300	800	7500	6811	689				
	23-24			7500		689				
	17-23			8300		7500			689	
NER	1st November 2014 to 30th November 2014	00-17	700	40	660	210	450			
		23-24			660		450			
		17-23			500		460			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 30th November 2014	00-06	4100	750	3350	3935	0			
		18-24			3350	4000	0			
		06-18'			4100	3350	4000			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			3500	2800	644			2156
NER	1st November 2014 to 30th November 2014	00-17	530	30	500	0	500			
		23-24		40	570		570			
		17-23		600	570		570			
WR										
SR*	1st November 2014 to 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 High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop
	Export	(n-1) contingency of 400kV Zerda-Bhimnal 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	03/11/14 to 04/11/14	Revised due to extension of outage of Vallur Unit 1	S1-S2

ASSUMPTIONS IN BASECASE

Month : Nov '14

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				
2	Haryana				
3	Rajasthan				
4	Delhi				
5	Uttar Pradesh				
6	Jammu & Kashmir				
7	Uttarakhand				
8	Himachal Pradesh				
9	Chandigarh				
10	ISGS/IPPs				
	Total NR	0	0	0	0
II	EASTERN REGION				
1	West Bengal				
2	Jharkhand				
3	Orissa				
4	Bihar				
5	Damodar Valley Corporation				
6	Sikkim				
7	Bhutan				
8	ISGS/IPPs				
	Total ER	0	0	0	0
III	WESTERN REGION				
1	Chattisgarh				
2	Madhya Pradesh				
3	Maharashtra				
4	Gujarat				
5	Goa				
6	Daman and Diu				
7	Dadra and Nagar Haveli				
8	ISGS/IPPs				
	Total WR	0	0	0	0

ASSUMPTIONS IN BASECASE

Month : Nov '14

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh				
2	Tamil Nadu				
3	Karnataka				
4	Kerala				
5	Pondy				
6	Goa				
7	ISGS/IPPs				
	Total SR	0	0	0	0
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh				
2	Assam				
3	Manipur				
4	Meghalaya				
5	Mizoram				
6	Nagaland				
7	Tripura				
8	ISGS/IPPs				
	Total NER	0	0	0	0
	Total All India	0	0	0	0