

**National Load Despatch Centre
Total Transfer Capability for January 2015**

Issue Date: 4/1/2015

Issue Time: 1130 hrs

Revision No. 5

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 January 2015 to 31st January 2015	00-24	2500	500	2000	1055	945		
WR-NR	1st January 2015 to 31st January 2015	00-17	4700	500	4200	4768	0		
		23-24							
		17-23							
NR-ER*	1st January 2015 to 31st January 2015	00-06	2000	200	1800	293	1507		
		06-18'	2000		1800	358	1442		
		18-24	2000		1800	293	1507		
ER-NR	1st January 2015 to 31st January 2015	00-17	3400	300	3100	2431	669		
		23-24							
		17-23							
W3-ER [§]	1st January 2015 to 31st January 2015	00-24	1800	300	1500	351	1149		
ER-W3	1st January 2015 to 31st January 2015	00-24	1000	300	700	973	0		
WR-SR ##	1st January 2015 to 4th January 2015	00-05	2500	750	1750	1350	400		
		22-24			1750	1350	0		
	5th January 2015	00-05	2500	750	1750	1350	400		Revised due to shutdown of 765 kV Bus-2 at Sholapur S/S
		05-08'	2100	750	1350	1350	0		
		08-22'	1000	0	1000	1350	0		
		22-24	1000	0	1000	1350	0		
	6th January 2015 to 15th January 2015	00-05	2500	750	1750	1350	400		
22-24		2100							
16th January 2015 to 31st January 2015	00-24	2100	750	1350	1350	0			
SR-WR *	1st January 2015 to 31st January 2015	00-24	No limit is being Specified.						
ER-SR ##	1st January 2015 to 31st January 2015	00-06	2650	0	2650	2585	65		
		18-24				2650	0		
		06-18'							
SR-ER *	1st January 2015 to 31st January 2015	00-24	No limit is being Specified.						
ER-NER	1st January 2015 to 31st January 2015	00-17	650	50	600	210	390		
		23-24			670		460		
		17-23			720				
NER-ER	1st January 2015 to 31st January 2015	00-17	540	30	510	0	510		
		23-24			550		550		
		17-23			590		40		
S1-S2	1st January 2015 to 4th January 2015	00-24	3720	315	3405	2630	775	290	Revised due to Vallur Unit-2 outage extension
	5th January 2015 to 8th January 2015	00-24	3720	315	3405	2630	775		
	9th January 2015 to 31st January 2015	00-24	3430	315	3115	2520	595		
Import of Punjab	1st January 2015 to 31st January 2015	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st January 2015 to 31st January 2015	00-24	1200	0	1200	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st January 2015 to 31st January 2015	00-17	9400	200	9200	6862	2338		
		23-24			9700		2838		
		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).

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1) 215 MW quantum of LTA is not being scheduled as per the CERC order dated 1st Oct 2014 for petition number 92/MP/2014
2) 211 MW quantum of MTOA is not being scheduled as per the communication sent by GM (commercial), Powergrid dated 30th Sep 2014.
3) considering (1), (2) & likelihood of commencement of above transactions, the margins would be released for short term transactions on day ahead basis.

\$ 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.

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 400kV Singrauli-Anpara & 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 Saranath-Pusauli
ER-NR	n-1 contingencies of 400KV Kahalgaon-Banka S/C and 400 kV Farraka-Malda S/C
W3-ER	i. (n-1) Contingency of 400 kV MPL-Maithon S/C ii. (n-1) contingency of 400kV Sterlite-Rourkela S/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela 1. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
WR-SR & ER-SR	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	n-1 contingencies of 400KV Kahalgaon-Banka S/C and 400 kV Farraka-Malda S/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA ICT at Misa
S1-S2	(n-1) contingency of one circuit of 400 kV Kolar-Hosur D/C line
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) 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 January 2015 to 31st January 2015	00-17	8100	800	7300	7199	101		
		23-24	8100		7300		101		
		17-23	8100		7300		101		
NER	1st January 2015 to 31st January 2015	00-17	650	50	600	210	390		
		23-24	650		600		390		
		17-23	720		670		460		
WR									
SR ^{##}	1st January 2015 to 4th January 2015	00-05	5150	750	4400	3935	465		
		05-06'	4750		4000	3935	65		
		06-18'	4750		4000	4000	0		
		18-22	4750		4000	3935	65		
		22-24	5150		4400	3935	465		
	5th January 2015	00-05	5150	750	4400	3935	465	Revised due to shutdown of 765 kV Bus-2 at Sholapur S/S	
		05-06'	4750	750	4000	3935	65		
		06-08'	4750	750	4000	4000	0		
		08-18'	3650	0	3650	4000	0		-1100
		18-22	3650	0	3650	3935	0		-1100
	6th January 2015 to 31st January 2015	22-24	3650	0	3650	3935	0	-1500	
		00-05	5150	750	4400	3935	465		
		05-06'	4750		4000	3935	65		
		06-18'	4750		4000	4000	0		
		18-22	4750		4000	3935	65		
	22-24	5150	4400		3935	465			

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 January 2015 to 31st January 2015	00-06	4500	700	3800	1348	2452		
		18-24			3800	1413	2387		
		06-18'			4500	3800	1413		
NER	1st January 2015 to 31st January 2015	00-17	540	30	510	0	510		
		23-24	540	30	510	0	510		
		17-23	590	40	550	0	550		
WR									
SR *	1st January 2015 to 31st January 2015	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).

1) 215 MW quantum of LTA is not being scheduled as per the CERC order dated 1st Oct 2014 for petition number 92/MP/2014
2) 211 MW quantum of MTOA is not being scheduled as per the communication sent by GM (commercial), Powergrid dated 30th Sep 2014.
3) Considering (1), (2) & likelihood of commencement of above transactions, the margins would be released for short term transactions on day ahead basis.

Limiting Constraints

NR	Import	n-1 contingencies of 400KV Kahalgaon-Banka S/C and 400 kv Farraka-Malda S/C High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high 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).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	n-1 contingencies of 400KV Kahalgaon-Banka S/C and 400 kv Farraka-Malda 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-2 generation goes below 1100 MW, then the ER-SR TTC would be revised downward as constraints within ER would emerge.

*Primary constraints

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Total Transfer Capability for January 2015**

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	29-12-2014	Whole Month	Margin revised due to change in LTA/MTOA.	NR-WR/ ER-W3/ W3-ER
			Revised considering change in LTA/MTOA and the New Transmission system commissioned.	W3 Zone Injection
			Margin revised due to COD of SASAN Unit-5.	WR-NR
			Revised after considering the LGBR submitted in 102nd OCC meeting and the New Transmission system commissioned.	S1-S2
2	30-12-2014	Whole Month	Revised due to NCTPS Stage -2 Unit-1 Outage Extension	S1-S2
3	31-12-2014	01/01/2015 to 15/01/2015	Revised considering the present demand pattern of Maharashtra during off -peak conditions.	WR-SR
		01/01/2015 to 04/01/2015	Revised due to Vallur Unit-2 Outage Extension. Less coal stock because of coal conveyor works commissioning.	S1-S2
4	31-12-2014	Whole Month	Revised due to Commissioning of Kudankulam Unit-1.	S1-S2
5	04-01-2015	05-01-2015	Revised due to shutdown of 765 kV Bus-2 at Sholapur S/S	WR-SR
		05-01-2015 to 09-01-2015	Revised due to Vallur Unit-2 outage extension	S1-S2