National Load Despatch Centre

Total Transfer Capability for November 2014

Issue Date: 04/11/2014 Issue Time: 1550 hrs Revision No. 10

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 23-24	4900	500	4400	4380	20		
		17-23	4900		4400		20		
	3rd November 2014 to 7th November 2014	00-17 23-24	4500	500	4000	4380	0		
		17-23	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		
	9st November 2014 to 30th November 2014	00-17 23-24	4900	500	4400	4380	20		
		17-23	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 23-24	3400	300	3100	2431	669		
		17-23					669		
W3-ER$	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 18-24	2000	0	2000	2585	0		
		06-18'				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 23-24	700	40	660	210	450		
		17-23	500		460		250		
NER-ER	1st November 2014 to 30th November 2014	00-17 23-24	530	30	500	0	500		
		17-23	600	40	570		570		

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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		
	4th November 2014	0000-0400	3200	285	2915	2868	0		Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu and Vallur unit 1 outage extension
		0400-1330	3000		2715	2868	0		
		1330-1800	3110		2825	2977	0	110	
		1800-2400	2850		2565	2868	0	-150	
	5th November 2014	00-08' 18-24	2850	285	2565	2868	0	-150	Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu
		08'-18	2750		2465		0	-250	Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu and shutdown of 220 kV Kadakola - Kaniympeta
	6th November 2014 to 11th November 2014	00-24	2850	285	2565	2791	0	-150	Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu
	12h November 2014 to 19th November 2014	00-24	2850	285	2565	2881	0	-150	
	20th November 2014 to 26th November 2014	00-24	2850	285	2565	2916	0	-150	
	27th November 2014 to 30th November 2014	00-24	2850	285	2565	2839	0	-150	
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 23-24	9400	200	9200	6843	2357		
		17-23	9900		9700		2857		

* 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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$ 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) KWPCL, 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 commissionned 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 willl 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) contingnecy 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 23-24	8300	800	7500	6811	689		
		17-23	8300		7500		689		
	3rd November 2014 to 7th November 2014	00-17 23-24	7900	800	7100	6811	289		
		17-23	7900		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		
	9st November 2014 to 30th November 2014	00-17 23-24	8300	800	7500	6811	689		
		17-23	8300		7500		689		
NER	1st November 2014 to 30th November 2014	00-17 23-24	700	40	660	210	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 18-24	4100	750	3350	3935	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 23-24	530	30	500	0	500		
		17-23	600	40	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-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 - Kaniympeta	
		06-11-2014 to 11-11-2014	Revised due to consistent low wind generation (~ 0 MW) in Tamilnadu	