National Load Despatch Centre
Total Transfer Capability for October 2014

Issue Date: 28/06/2014 Issue Time: 2330 hrs Revision No. 0

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 October 2014 to 31st October 2014	00-24	2500	500	2000	297	1703		
WR-NR	1st October 2014 to 31st October 2014	00-17 23-24	4700	500	4200	4380	0		
		17-23	4700		4200		0		
NR-ER*	1st October 2014 to 31st October 2014	00-06	1800	200	1600	293	1307		
		06-17'			800	338	462		
		17-18'	1800		1600	338	1262		
		18-23			900	293	607		
		23-24	1800		1600	293	1307		
ER-NR	1st October 2014 to 31st October 2014	00-17 23-24	4000	300	3700	2431	1269		
		17-23					1269		
W3-ER[$]	1st October 2014 to 31st October 2014	00-24	1600	300	1300	551	749		
ER-W3	1st October 2014 to 31st October 2014	00-24	1000	300	700	874	0		
WR-SR	1st October 2014 to 31st October 2014	00-24	1000	0	1000	1000	0		
SR-WR *	1st October 2014 to 31st October 2014	00-24	1000	0	1000	0	1000		
ER-SR	1st October 2014 to 31st October 2014	00-06 18-24	2700	0	2700	2366	334		
		06-18'				2411	289		
SR-ER *	1st October 2014 to 31st October 2014	00-24	1200	0	1200	197	1003		
ER-NER	1st October 2014 to 31st October 2014	00-06 23-24	540	50	490	205	285		
		06-17'	540		490	210	280		
		17-18	510		460	210	250		
		18-23	510		460	205	255		
NER-ER	1st October 2014 to 31st October 2014	00-17 23-24	690	100	590	0	590		
		17-23	530		430		430		
S1-S2	1st October 2014 to 18th October 2014	00-24	2300	290	2010	2588	0		
	19th October 2014	00-24	2300	290	2010	2788	0		
	20th October 2014 to 28th October 2014	00-24	2300	290	2010	2866	0		
	29th October 2014 to 31st October 2014	00-24	2300	290	2010	2788	0		

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Import of Punjab	1st October 2014 to 31st October 2014	00-24	5700	300	5400	3790	1610		
Import TTC for DD & DNH	1st October 2014 to 31st October 2014	00-24	980	0	980	LTA and MTOA as per ex-pp schedule			
W3 zone Injection	1st October 2014 to 31st October 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).

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, 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)DB Power, m) KWPCL

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 STOA approvals

$ 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.

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 Sarnath-Pusauli
ER-NR	(n-1) contingencies of 400KV Farakka-Malda D/C & (n-1) contingency of 400KV Kahalgaon-Banka D/C
W3-ER	(n-1) contingency of 400kV MPL-Maithon D/C
ER-W3	(n-1) contingency of 400kV Raigarh-Jharsuguda-Rourkela
WR-SR & ER-SR	1. Commissioning of 765kV Raichur-Sholapur S/C
	2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO).
	3. 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.
SR-WR	Bhadrawati HVDC B/B link capacity
SR-ER	(n-1) contingency of 400kV Talcher-Rourkela D/C
ER-NER	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/C
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and Hihg loading of 220kV Misa-Samaguri D/C
S1-S2	(n-1) contingency of 400 kV Kolar-Hosur D/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

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 October 2014 to 31st October 2014	00-17 23-24	8700	800	7900	6811	1089		
		17-23	8700		7900		1089		
NER	1st October 2014 to 31st October 2014	00-06 23-24	540	50	490	205	285		
		06-17'	540		490	210	280		
		17-18	510		460	210	250		
		18-23	510		460	205	255		
WR									
SR	1st October 2014 to 31st October 2014	00-06 18-24	3700	0	3700	3366	334		
		06-18'	3700		3700	3411	289		

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 2014 to 31st October 2014	00-06	4300	700	3600	590	3010		
		06-17'			2800	635	2165		
		17-18'	4300		3600	635	2965		
		18-23			2900	590	2310		
		23-24	4300		3600	590	3010		
NER	1st October 2014 to 31st October 2014	00-17 23-24	690	100	590	0	590		
		17-23	530		430		430		
WR									
SR *	1st October 2014 to 31st October 2014	00-24	2200	0	2200	197	2003		

* 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**	(n-1) contingencies of 400KV Farakka-Malda D/C(n-1) contingencies of 400KV Farakka-Malda D/C & (n-1) contingency of 400KV Kahalgaon-Banka D/C
		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).
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Sarnath-Pusauli
NER	**Import**	(n-1) contingency of one circuit of 400 kV Balipara – Bongaigaon D/C and High loading of 220kV BTPS-Agia S/C
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa and Hihg loading of 220kV Misa-Samaguri D/C
SR	**Import**	1. Commissioning of 765kV Raichur-Sholapur S/C 2. Based on the operational experience after the synchronization of SR grid with NEW grid and due to inadvertent variation of 765kV Raichur-Sholapur line flow, observation of Low Frequency Oscillations(LFO). 3. 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.
	Export	(n-1) contingency of 400kV Talcher-Rourkela D/C

*Primary constraints

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Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected