National Load Despatch Centre Total Transfer Capability for October 2015

Issue Date: 20/07/2015 Issue Time: 1630 hrs Revision No. 1

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 Oct 2015 to 31st Oct 2015	00-24	2500	500	2000	706	1294		
WR-NR*	1st Oct 2015 to 31st Oct 2015	00-24	5100	500	4600	5446	0		
	I	00.06	2000	ı	1000	202	1507	1	
NR-ER*	1st Oct 2015 to	00-06	2000 2000	200	1800 1800	293 358	1507 1442		
TVIC-LIK	31st Oct 2015	18-24	2000	200	1800	293	1507		
ER-NR*&	1st Oct 2015 to 31st Oct 2015	00-24	4800	300	4500	2431	2069		
	1st Oct 2015 to					No limit i	s being specified.		
W3-ER ^{\$}	31st Oct 2015	00-24					allowed via W3-EF	R-NR.	
ER-W3	1st Oct 2015 to 31st Oct 2015	00-24	1000	300	700	874	0		
	1st Oct 2015 to								
WR-SR	31st Oct 2015	00-24	2300	750	1550	1550	0		
SR-WR *	1st Oct 2015 to 31st Oct 2015	00-24		No limit is being Specified.					
	31st Oct 2013	<u> </u>							
ER-SR	1st Oct 2015 to 31st Oct 2015	00-06 18-24 06-18'	2650	0	2650	2585	65		STOA Margin revised considering CERC order dated 03-07-2015 in petition No- 92/MP/2015 which is under implementation by CTU.
						2650	0		Pending this any margins would be released for short term transactions on day ahead basis.
SR-ER *	1st Oct 2015 to 31st Oct 2015	00-24				No limit i	s being Specified.		
	1st to 2nd	00-24	4040		3720	2496	1224		
	3rd to 10th	00-24	4040			2573	1147		
	11th to 14th	00-24				2663	792		
S1-S2 (Rev 0)	15th to 21st	00-24		320		2507	948		
(Rev 0)	22nd	00-24	3775		3455	2587	868		
	23rd	00-24				2676	779		
	24th to 31st	00-24				2467	988		
		00.15							
ER-NER	1st Oct 2015 to 31st Oct 2015	00-17 23-24	1390	45	1345	210	1135		
		17-23 00-17	1135		1090		880		
NER-ER	1st Oct 2015 to 31st Oct 2015	23-24	1415 1250	45 45	1370 1205	0	1370 1205		
		17-23	1430	77	1203		1403		
W3 zone	1st Oct 2015 to	00-17 23-24	9400	200	9200	7104	2096		
Injection	31st Oct 2015	17-23	9900	200	9700	, 104	2596		

^{*} 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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S1-S2 Corridor: Any revision in S1-S2 TTC/ATC from Rev-0, would be uploaded under Intra-Regional Section on NLDC website.

\$ 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. & ER-NR TTC is independent of WR-NR corridor flow

- 1) S1 comprises of Telangana, AP and Karnataka: S2 comprises of Tamil Nadu, Kerala and Puducherry
- 2) 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 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 contingency of 400 kV Biharshariff- Lakhisarai S/C
ER-W3	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular Octaration between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
WR-SR &	1. (n-1) of 400 kV Wardha – Parli will lead to 30 degrees angular Octaration between Wardha and Parli. 2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
ER-SR	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.
ER-NER	(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
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
W3 zone	1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular Octaration between Wardha and Parli.
Injection	2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)

^{*}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 Oct 2015 to 31st Oct 2015	00-24	7300	800	6500	7877	0		
NER	1st Oct 2015 to	00-17 23-24	1390	45	1345	210	1135		
	31st Oct 2015	17-23	1135		1090		880		
TY/D									
WR									
CD	1st Oct 2015 to	00-06 18-24	4950	750	4200	4135	65		STOA Margin revised considering CERC order dated 03-07-2015 in petition No- 92/MP/2015 which is under implementation by
SR	31st Oct 2015	06-18'	4950	730	4200	4200	0		CTU. Pending this any margins would be released for short term transactions on day ahead basis.

^{*} 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).

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
	1st Oct 2015 to	00-06	4500	700	3800	999	2801		
NR*	31st Oct 2015	06-18'	4300		3800	1064	2736		
		18-24	4500		3800	999	2801		
NER	1st Oct 2015 to 31st Oct 2015	00-17 23-24	1415	45	1370	0	1370		
		17-23	1250	45	1205		1205		
WD									
WR									
SR *	1st Oct 2015 to 31st Oct 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).

Limiting Constraints

Limiting	Constraints	
		(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C
	Import	High loading of 765 kV Agra-Gwalior (1250 MW SPS setting on each circuit of 765 kV Gwalior-Agra) and high loop
NR	Import	flows on 400kV Kankroli-Zerda and 400kV Bhinmal-Zerda (power flowing from WR to NR on 765kV Gwalior-Agra
1414		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.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
NER	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA
NEK	Export	ICT at Misa
		1. n-1 of 400 kV Wardha – Parli will lead to 30 degrees angular separation between Wardha and Parli.
		2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
SR	Import	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.
		lemenger.

^{*}Primary constraints

National Load Despatch Centre Total Transfer Capability for October 2015

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	20-07-2015	Whole Month	STOA Margin revised considering CERC order dated 03-07-2015 in petition No- 92/MP/2015 which is under implementation by CTU. Pending this any margins would be released for short term transactions on day ahead basis.	ER-SR

ASSL	IMPTIONS IN BASECASE				
7.000				Month : October '15	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
ī	NORTHERN REGION		()		()
1	Punjab	7657	6004	4196	4242
	Haryana	7576	6766	3317	3317
	Rajasthan	9178	9897	6114	6110
	Delhi	4449	2882	1156	1156
	Uttar Pradesh	12168	10933	5913	5851
	Uttarakhand	1573	1277	556	404
7	Himachal Pradesh	1253	978	418	435
	Jammu & Kashmir	2244	1746	240	232
9	Chandigarh	238	147	0	0
	ISGS/IPPs	0	0	18220	12306
	Total NR	46336	40630	40130	34053
II	EASTERN REGION				
1	Bihar	2686	1884	240	120
2	Jharkhand	995	793	552	300
3	Damodar Valley Corporation	2487	2030	3831	3261
	Orissa	3593	2796	3378	2483
5	West Bengal	7396	6253	5086	4000
6	Sikkim	99	59	0	0
7	Bhutan	338	337	1490	1150
8	ISGS/IPPs	610	566	11062	9925
	Total ER	18204	14717	25639	21239
Ш	WESTERN REGION				
1	Maharashtra	20077	12639	14900	8194
2	Gujarat	14392	8618	11287	5509
3	Madhya Pradesh	8008	5948	4832	3049
4	Chattisgarh	3838	3825	2611	2851
5	Daman and Diu	310	237	0	0
6	Dadra and Nagar Haveli	784	581	0	0
7	Goa-WR	521	298	0	0
8	ISGS/IPPs	1056	1055	23713	21264
	Total WR	48986	33200	57341	40867

	Ι				
IV	SOUTHERN REGION				
1	Andhra Pradesh	5870	5494	5192	4701
2	Telangana	7082	6346	3246	2362
	Karnataka	7654	5943	7091	5422
4	Tamil Nadu	12244	10949	6990	5376
5	Kerala	3271	2218	1782	820
6	Pondy	323	278	0	0
7	Goa-SR	86	76	0	0
8	ISGS/IPPs	0	0	9622	9622
	Total SR	36530	31304	33923	28303
٧	NORTH-EASTERN REGION				
1	Arunachal Pradesh	107	44	0	0
2	Assam	969	719	265	195
3	Manipur	113	69	0	0
4	Meghalaya	295	197	214	163
5	Mizoram	76	44	4	4
6	Nagaland	95	70	16	6
7	Tripura	260	162	105	105
8	ISGS/IPPs	7	7	1313	856
	Total NER	1922	1312	1917	1329
	Total All India	151979	121164	158951	125791