National Load Despatch Centre Total Transfer Capability for October 2015

Issue Date:05/10/2015 Issue Time: 1315 hrs Revision No. 8

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	7450	500	6950	5638	1312		
	1st Oct 2015 to	00-06	2000	-00	1800	293	1507		
NR-ER*	31st Oct 2015	06-18'	2000	200	1800	358	1442		
		18-24	2000		1800	293	1507		
ER-NR*	1st Oct 2015 to 31st Oct 2015	00-24	4800	300	4500	2431	2069		
	1 - 0 - 2015					NT1111	a la sin a san di C a 1		
W3-ER ^{\$}	1st Oct 2015 to	00-24					s being specified. allowed via W3-El	D NID	
	31st Oct 2015 1st Oct 2015 to					No Ke-routing is	anowed via W3-El	K-INK.	
ER-W3	31st Oct 2015	00-24				No limit i	s being Specified.		
	2100 000 2012	1							
	1st Oct 2015 to	00-05	2700		1950	1950	0		
	4th Oct 2015	05-22'	2300	750	1550	1550	0		
WR-SR		22-24	2700		1950	1950	0		
,,,,,,	5th Oct 2015 to 31st Oct 2015	00-05	2830	750	2080	2080	0		
		05-22'	2830		2080	2080	0		
	1 + 0 + 2015 +	22-24	2830		2080	2080	0		
SR-WR *	1st Oct 2015 to 31st Oct 2015	00-24				No limit i	s being Specified.		
		00.05							I
ED CD	1st Oct 2015 to 31st Oct 2015	2015 to 00-06	2650	0	2650	2585	65		
ER-SR		31st Oct 2015	18-24 06-18'		U	2630	2650	0	
SR-ER *	1st Oct 2015 to	00-18					s being Specified.		
	31st Oct 2015								
S1-S2	1st Oct 2015 to 31st Oct 2015	00-24	S	1-S2 corridor	TTC/ATC is u	ploaded on NLDC	website under Intr	a-Regional	Section in Monthly ATC.
		00-17							T T
ER-NER	1st Oct 2015 to	23-24	1390	45	1345	210	1135		
1314-141314	31st Oct 2015	17-23	1135	73	1090	210	880		
		00-17							
NER-ER	1st Oct 2015 to 31st Oct 2015	23-24	1415	45	1370	0	1370		
		17-23	1250	45	1205		1205		
	1st Oct 2015 to	00.21	11000	200	10000	7576	2224		
	05th Oct 2015	00-24	11000	200	10800	7576	3224		
W3 zone Injection	06th Oct 2015 to 31st Oct 2015	00-24	11000	200	10800	8106	2694		LTA/MTOA revised after operationalization of LTA as intimated by CTU after completion of trial operation of 765kV Aurangabad-Sholapur Ckt-2

^{*} 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) 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	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. 2.High Loading of 400kV Singrauli-Anpara S/C.						
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli						
ER-NR	N-1 contingency of 400 kV Biharshariff- Lakhisarai S/C						
WR-SR & ER-SR	Outage of 765 kV Auarangabad - Sholapur will lead to high angular difference between Wardha and Parli SPS limit of 765 kV Raichur - Sholapur 2*S/C						
	3. Low Voltage at Gazuwaka (East) Bus.						
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 Injection	Outage of 765 kV Auarangabad - Sholapur will lead to high angular difference between Wardha and Parli SPS limit of 765 kV Raichur - Sholapur 2*S/C						

^{*}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									
		00-05	10650		9850		1781		
NR*	1st Oct 2015 to	05-08'	11150	800	10350	8069	2281		
111	31st Oct 2015	08-19'	10650	800	9850	8009	1781		
		19-24'	9950		9150		1081		
NER	1st Oct 2015 to 31st Oct 2015	00-17 23-24	1390	45	1345	210	1135		
		17-23	1135		1090		880		
WR									
WIX									
		00-05	5350		4600	4535	65		
	1st Oct 2015 to	05-06'	4950		4200	4135	65		
	4th Oct 2015	06-18'	4950	750	4200	4200	0		
	4th Oct 2013	18-22'	4950		4200	4135	65		
SR		22-24	5350		4600	4535	65		
SIX.		00-05	5480		4730	4730	0		
	5th Oct 2015 to	05-06'	5480		4730	4730	0		
	31st Oct 2015	06-18'	5480	750	4730	4730	0		
	318t Oct 2013	18-22'	5480		4730	4730	0		
		22-24	5480		4730	4730	0		

^{*} 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).

Margin in Simultaneous import of NR = A

WR-NR ATC =B

ER-NR ATC = C

Margin for WR-NR applicants = B * A/(B+C)Margin for ER-NR Applicants = C * A/(B+C)

Example: Margin for WR-NR applicants from 00-05 hours = 231 * 5900/(5900+4500) = 131

Margin for ER-NR applicants from 00-05 hours = 231 * 4500/(5900+4500) = 100

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 Oct 2015 to 31st Oct 2015	00-06 06-18'	4500	700	3800 3800	999 1064	2801 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		
WR									
VV IX									
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).

^{*} For approving STOA Bilateral transactions, margin available in Simultaneous Import of NR would be apportioned on WR-NR Corridor & ER-NR Corridor in the following ratio:

Limiting Constraints

	,	
		(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C
	Import	1. (n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.
NR		2.High Loading of 400kV Singrauli-Anpara S/C.
	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) 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. Outage of 765 Auarangabad - Sholapur will lead to high angular difference between Wardha and Parli
SR	Import	2. SPS limit of 765 kV Raichur - Sholapur 2*S/C
		3. Low Voltage at Gazuwaka (East) Bus.

^{*}Primary constraints

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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
2	26-08-2015	Whole Month	Revised due to commissioning of 765kV Gwalior-Phagi Ckt- 1&2, 765kV Phagi-Bhiwani S/C and STOA margin revised due to operationalization of MTOA.	WR-NR/ Import of NR
		WORL	STOA Margin revised due to Operationalization of LTA.	W3 Zone Injection
3	02-09-2015	Whole Month	A remark has been put on Simultaneous Import of NR for approving STOA Bilateral Transactions	Import of NR
4	24-09-2015	Whole Month	Revised due to revision in 765kV Gwalior-Agra Ckt-1&2 SPS setting.	WR-NR/ Import of NR
			Revised due to commissioning of 765kV Dharamjaigarh- Jabalpur D/C.	W3 Zone Injection
5	28-09-2015	Whole	Revised due to commissioning of 765kV Dharamjaigarh- Jabalpur D/C.	ER-W3
3	5 28-09-2015		Revised considering the present Maharashtra demand pattern.	WR-SR
6	30-09-2015	Whole Month	Revised due to outage of Vindhyachal BTB HVDC Block-1.	WR-NR/ Import of NR
7	10-04-2015	05-10-2015 to 31-10-2015	Revised due to completion of trial operation of 765kV Aurangabad-Sholapur Ckt-2	WR-SR
8	05-10-2015	to	LTA/MTOA revised after operationalization of LTA as intimated by CTU after completion of trial operation of 765kV Aurangabad-Sholapur Ckt-2	W3 Zone Injection

ASSU	MPTIONS IN BASECASE				
				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
5	Uttar Pradesh	12168	10933	5913	5851
6	Uttarakhand	1573	1277	556	404
7	Himachal Pradesh	1253	978	418	435
8	Jammu & Kashmir	2244	1746	240	232
9	Chandigarh	238	147	0	0
10	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
4	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				
	Maharashtra	20077	12639	14900	8194
	Gujarat	14392	8618	11287	5509
	Madhya Pradesh	8008	5948	4832	3049
	Chattisgarh	3838	3825	2611	2851
	Daman and Diu	310	237	0	0
	Dadra and Nagar Haveli	784	581	0	0
	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
V	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