National Load Despatch Centre Total Transfer Capability for October 2015

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		No. 6	Revision N			5 hrs	e Time: 124	Issu		0/09/2015	Issue Date: 3
NR-WR * 31st Oct 2015 00-24 2500 500 2000 706 1294	ts	Comments	in TTC w.r.t. Last	Available for Short Term Open Access	Access (LTA)/ Medium Term Open Access	Transfer Capability	•	Transfer Capability	Period	Date	Corridor
WR-NR* 31st Oct 2015 00-24 7450 500 6950 5638 1312 -250 Vindhyachal BTB FY NR-ER* 1st Oct 2015 to 31st Oct 2015 00-06 2000 1800 293 1507				1294	706	2000	500	2500	00-24		NR-WR *
NR-ER* Ist Oct 2015 0 $06-18'$ 2000 200 1800 358 1442 ER-NR* Ist Oct 2015 0 $00-24$ 4800 300 4500 2431 2069 W3-ER* Ist Oct 2015 0 $00-24$ 4800 300 4500 2431 2069 W3-ER* Ist Oct 2015 10 $00-24$ 4800 300 4500 2431 2069 W3-ER* Ist Oct 2015 10 $00-24$ $00-24$ No limit is being specified. No Re-routing is allowed via W3-ER-NR. ER-W3 Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. WR-SR Ist Oct 2015 10 $00-24$ 2700 1950 0 SR-WR * Ist Oct 2015 10 $00-24$ 22.24 2700 1950 0 SR-SR Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. SR-SR Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. SR-SR Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. SR-SR Ist Oct 2015 10		Revised due to outage of Vindhyachal BTB HVDC B		1312	5638	6950	500	7450	00-24		WR-NR*
NR-ER* Ist Oct 2015 0 $06-18'$ 2000 200 1800 358 1442 ER-NR* Ist Oct 2015 0 $00-24$ 4800 300 4500 2431 2069 W3-ER* Ist Oct 2015 0 $00-24$ 4800 300 4500 2431 2069 W3-ER* Ist Oct 2015 10 $00-24$ 4800 300 4500 2431 2069 W3-ER* Ist Oct 2015 10 $00-24$ $00-24$ No limit is being specified. No Re-routing is allowed via W3-ER-NR. ER-W3 Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. WR-SR Ist Oct 2015 10 $00-24$ 2700 1950 0 SR-WR * Ist Oct 2015 10 $00-24$ 22.24 2700 1950 0 SR-SR Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. SR-SR Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. SR-SR Ist Oct 2015 10 $00-24$ $00-24$ No limit is being Specified. SR-SR Ist Oct 2015 10								1		1	
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ER-SR 1st Oct 2015 to 31st Oct 2015 18-24 06-18' 2650 2585 65 SR-ER * 1st Oct 2015 to 31st Oct 2015 00-24 00-24 No limit is being Specified. S1-S2 1st Oct 2015 31st Oct 2015 00-24 S1-S2 corridor TTC/ATC is uploaded on NLDC website under Intra-Regional Section in Monthly A Ist Oct 2015 to 31st Oct 2015 00-17 1390 1345 1135		No limit is being Specified.							00-24		SR-WR *
ER-SR 1st Oct 2015 to 31st Oct 2015 18-24 06-18' 2650 2585 65 SR-ER * 1st Oct 2015 to 31st Oct 2015 00-24 00-24 No limit is being Specified. S1-S2 1st Oct 2015 31st Oct 2015 00-24 S1-S2 corridor TTC/ATC is uploaded on NLDC website under Intra-Regional Section in Monthly A Ist Oct 2015 to 31st Oct 2015 00-17 1390 1345 1135					I						
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1st Oct 2015 to 1300 1345 1135	C.	Section in Monthly ATC.	a-Regional S	website under Intra	ploaded on NLDC	TTC/ATC is u	1-S2 corridor	S	00-24		S1-S2
1st Oct 2015 to 1300 1345 1135											
ED NED 101010 02 04 1000 45 1010 010 1100				1135		1345		1390		1st Oct 2015 to	
3 st Oct 2015					210	1343 210	45		23-24		ER-NER
17-23 1135 1090 880				880		1090		1135		5150 000 2015	
NUED ED 1st Oct 2015 to 00-17 1415 45 1370 0 1370				1370		1370	45	1415		1st Oct 2015 to	
NER-ER 31st Oct 2015 23-24 0				1370	0	1370	+3				NER-ER
17-23 1250 45 1205 1205				1205		1205	45	1250	17-23	5150 000 2015	
W3 zone 1st Oct 2015 to 00-24 11000 200 10800 7576 3224				3224	7576	10800	200	11000	00-24		
Injection 31st Oct 2015 00 24 11000 200 10000 7570 5224										31st Oct 2015	Injection

* 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).

National Load Despatch Centre Total Transfer Capability for October 2015

Issue Date:	30/09/2015		Issu	e Time: 124	15 hrs			Revision	No. 6
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

\$ 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 &	 (n-1) of 400 kV Wardha – Parli will lead to 30 degrees angular Octaration between Wardha and Parli. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
ER-SR	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	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

*Primary constraints

Simultaneous Import Capability

Corridor	Corridor Date Period (hrs) Time Period (hrs) Total Transfer Capability (TTC) Total Transfer Capability (TTC) Available Margin Changes Capability (ATC) Available (ATC) Available Chang Term Available Transfer Capability (ATC) Available (ATC) Available Chang Term Available Chang Term Available for Short Term Open Access (LTA)/ Available for Short Term (STOA) (STOA) Revision										
ER											
LK											
		00-05	10650		9850		1781	-350	Revised due to outage of		
NR*	1st Oct 2015 to	05-08'	11150	800	10350	8069	2281	-350	Vindhyachal BTB HVDC		
	31st Oct 2015	08-19'	10650	800	9850		1781	-350	Block-1.		
		19-24'	9950		9150		1081	-300	block II		
NER	1st Oct 2015 to	00-17 23-24	1390	45	1345	210	1135				
	31st Oct 2015	17-23	1135		1090		880				
WR											
WK											
		00-05	5350		4600	4535	65				
	1st Oct 2015 to	05-06'	4950		4200	4135	65				
SR	31st Oct 2015 to	06-18'	4950	750	4200	4200	0				
	5181 001 2015	18-22'	4950		4200	4135	65				
22-24 5350 4600 4535 65											
				count of LTA	A/MTOA trai	nsactions in the re	everse direction v	would be co	onsidered for advanced		
transaction	ns (Bilateral & Firs	t Come I	First Serve).								
Corridor ir	n the following rati	o:		gin available	in Simultane	eous Import of NR	would be appor	tioned on V	WR-NR Corridor & ER-NR		
-	Simultaneous imp	ort of NF	$\mathbf{R} = \mathbf{A}$								
WR-NR A	TC =B										

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	4500	700	3800 3800	999 1064	2801 2736		
NER	1st Oct 2015 to	18-24 00-17 23-24	4500 1415	45	3800 1370	999 0	2801 1370		
	31st Oct 2015	17-23	1250	45	1205		1205		
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

		(n-1) contingency of 400 kV Biharshariff- Lakhisarai S/C
NR	Import	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.
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
		(n-1) contingency of 400 kV Saranath-Pusauli
	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
	Import	1. n-1 of 400 kV Wardha - Parli will lead to 30 degrees angular separation between Wardha and Parli.
SR		2. (n-1) contingency of one circuit of 400kV Parli(PG)-Sholapur(PG)
		3. Low Voltage at Gazuwaka (East) Bus.

*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	7/20/2015	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	8/26/2015	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
		Month	STOA Margin revised due to Operationalization of LTA.	W3 Zone Injection
3	9/2/2015	Whole Month	A remark has been put on Simultaneous Import of NR for approving STOA Bilateral Transactions	Import of NR
4	9/24/2015	Whole	Revised due to revision in 765kV Gwalior-Agra Ckt-1&2 SPS setting.	WR-NR/ Import of NR
		Month	Revised due to commissioning of 765kV Dharamjaigarh- Jabalpur D/C.	W3 Zone Injection
5	9/28/2015	Whole	Revised due to commissioning of 765kV Dharamjaigarh- Jabalpur D/C.	ER-W3
5	9/28/2015	Month	Revised considering the present Maharashtra demand pattern.	WR-SR
6	9/30/2015	Whole Month	Revised due to outage of Vindhyachal BTB HVDC Block-1.	WR-NR/ Import of NR

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)
I	NORTHERN REGION				· · · · ·
1	Punjab	7657	6004	4196	4242
2	Haryana	7576	6766	3317	3317
3	Rajasthan	9178	9897	6114	6110
4	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
	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
	WESTERN REGION				
1	Maharashtra	20077	12639	14900	8194
2	Gujarat	14392	8618	11287	5509
	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

V	SOUTHERN REGION				
1	Andhra Pradesh	5870	5494	5192	4701
2	Telangana	7082	6346	3246	2362
3	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
/	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