National Load Despatch Centre Total Transfer Capability for October 2016

Issue Date: 30/9/2016 Issue Time: 1800 hrs Revision No. 3

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 2016 to 31st Oct 2016	00-24	2500	500	2000	55	1945		
	1st Oct 2016	00-24	7000	500	6500	6170	330	400	Revised due to commissioning of 765kV Phagi-Bhiwani Ckt-2.
WR-NR*	2nd Oct 2016	00-08	7000	500	6500	6170	330	400	Revised due to commissioning of 765kV Phagi-Bhiwani Ckt-2 and shutdown of 765kV Gwalior-Agra-2
		08-24'	6500		6000	33.13	0	-100	& 765kV Agra-Greater Noida- Meerut.
	3rd Oct 2016 to 31st Oct 2016	00-24	7000	500	6500	6170	330	400	Revised due to commissioning of 765kV Phagi-Bhiwani Ckt-2.
	1 . 0 . 2015	00-06	2000		1800	93	1707		
NR-ER*	1st Oct 2016 to	06-18'	2000	200	1800	158	1642		
	31st Oct 2016	18-24	2000		1800	93	1707		
ER-NR*	1st Oct 2016 to 31st Oct 2016	00-24	4200	300	3900	2531	1369		
W3-ER ^{\$}	1st Oct 2016 to 31st Oct 2016	00-24		No limit is being specified.					
ER-W3	1st Oct 2016 to 31st Oct 2016	00-24				No limit i	s being specified.		
	3130 000 2010								
WR-SR	1st Oct 2016 to 31st Oct 2016	00-24	4000	750	3250	3250	0		
SR-WR *	1st Oct 2016 to 31st Oct 2016	00-24				No limit is	s being Specified.		
		00-06				2585	65		
ER-SR	1st Oct 2016 to	06-18'	2650	0	2650	2650	0		
	31st Oct 2016	18-24				2585	65		
SR-ER*	1st Oct 2016 to 31st Oct 2016	00-24				No limit is	s being Specified.		
		00-17	1160		1115		905		
ER-NER	1st Oct 2016 to	17-23	1040	45	995	210	785		
	31st Oct 2016	23-24	1160	.5	1115	210	905		
	1-+ 0-+ 2016 +	00-17	1250		1205		1205		
NER-ER	1st Oct 2016 to 31st Oct 2016	17-23	1420	45	1375	0	1375		
	518t Oct 2010	23-24	1250		1205		1205		
W2 mana	1st Oat 2016 to		No limit is 1	oing specifies	l (in case of alr	awad inter regions	I flowe or any some	trainte anno	earing in the system, W3 zone export
W3 zone Injection	1st Oct 2016 to 31st Oct 2016	00-24	INO IIIIII IS I	being specified	i (iii case of sk		evised accordingly)	trantis appe	taring in the system, we zone export
mjection	318t OCt 2010					would be le	viscu accordingly)		

^{*} 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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- 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
- $f)\ BALCO,\ g)\ Sterlite\ (\#1,3,4),\ h)\ NSPCL,\ i)\ Korba,\ j)\ Sipat,\ k)\ KSK\ Mahanadi,\ L)DB\ Power,\ m)\ KWPCL,\ n)Vandana\ Vidyut\ o)RKM,\ p)GMR\ Raikheda,\ q)Ind\ Barath\ and\ any\ other\ regional\ entity\ generator\ in\ Chhattisgarh$

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	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. High Loading of 400kV Singrauli-Anpara S/C.
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli
ER-NR	n-1 contingency of one cicuit of 400 kV Kahalgaon-Banka leads to high loading on the other cicuit
WR-SR & ER-SR	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit 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. n-1 contingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
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	

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									
	1st Oct 2016	00-18 18-23'	11100 10300	800	10300 9500	8701	1599 799	600	Revised due to commissioning of 765kV
		23-24	11100 11100		10300 10300		1599 1599	600	Phagi-Bhiwani Ckt-2. Revised due to
*		08-18'	10300	800	9500	8701	799	-200	commissioning of 765kV Phagi-Bhiwani Ckt-2 and shutdown of 765kV Gwalior-Agra-2 & 765kV Agra-Greater Noida- Meerut.
NR [*]	2nd Oct 2016	18-23'	9600		8800		99	-100	
		23-24	10300		9500		799	-200	
	3rd Oct 2016 to	00-18	11100	800	10300	9701	1599	600	Revised due to
	31st Oct 2016	18-23' 23-24	10300 11100		9500 10300	8701	799 1599		commissioning of 765kV Phagi-Bhiwani Ckt-2.
NER	1st Oct 2016 to 31st Oct 2016	00-17 23-24	1160	45	1115	210	905		
3180	31st Oct 2010	17-23	1040		995		785		
WR									
	1st Oct 2016 to	00-06	6650		5900	5835	65		
SR	31st Oct 2016	06-18' 18-24	6650 6650	750	5900 5900	5900 5835	0 65		

^{*} 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:

Margin in Simultaneous import of NR = A

WR-NR ATC =B ER-NR ATC = C

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

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 2016 to 31st Oct 2016	00-06 06-18' 18-24	4500 4500	700	3800 3800 3800	148 213 148	3652 3587 3652		
NER	1st Oct 2016 to 31st Oct 2016	00-17 23-24	1250	45	1205	0	1205		
WR		17-23	1420		1375		1375		
SR*	1st Oct 2016 to 31st Oct 2016	00-24				No limit is be	ing 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

	Comstraints	
		(n-1) contingency of one circuit of 400 kV Kahalgaon-Banka leads to high loading on the other circuit
	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.
	Evmont	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
	т ,	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA
NER _	Import	ICT at Misa. n-1 entingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar
NEK	E	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA
	Export	ICT at Misa.
SR	Import	(n-1) contingency of one circuit of 765 kV Raichur - Sholapur will lead to 2500 MW loading on the other circuit
SK	Import	Low Voltage at Gazuwaka (East) Bus.

National Load Despatch Centre Total Transfer Capability for October 2016

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	3/8/2016	Whole month	Revised due to commissioning of 400 kV Ranchi-Chandawa-Gaya D/C, 765kV Varanasi-Kanpur D/C, 765kV Kanpur-Jhatikara S/C, 400kV Kanpur (GIS)-Kanpur D/C and conisdering total gen at Kawai, Chhabra, Kalisindh as 2500 MW and considering the present inter regional flow pattern	WR-NR/ Simultaneous import of NR
2	20/9/2016	Whole month	Revised considering the current rating of 400 kV isolators at Dhanaunda as 2000 A and considering the present inter regional flow pattern	WR-NR/ Simultaneous import of NR
		1/9/2016	Revised due to commissioning of 765kV Phagi-Bhiwani Ckt-2.	
3	30/9/2016	2/9/2016	Revised due to commissioning of 765kV Phagi-Bhiwani Ckt-2 and shutdown of 765kV Gwalior-Agra-2 & 765kV Agra-Greater Noida-Meerut.	WR-NR/ Simultaneous import of NR
	3/9/2016 to		Revised due to commissioning of 765kV Phagi-Bhiwani Ckt-2.	

ASSU	MPTIONS IN BASECASE				
				Month : October '16	
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	7766	6417	3969	3956
2	Haryana	7422	4463	2801	2801
3	Rajasthan	9095	9429	6037	5967
4	Delhi	4292	3146	772	772
5	Uttar Pradesh	13589	12991	7049	6868
6	Uttarakhand	1625	1401	589	602
7	Himachal Pradesh	1231	946	472	451
8	Jammu & Kashmir	2145	1599	584	575
9	Chandigarh	228	144	0	0
10	ISGS/IPPs	28	29	18919	11634
	Total NR	47421	40565	41192	33626
II	EASTERN REGION				
1	Bihar	3522	2856	200	200
	Jharkhand	1098	886	400	350
3	Damodar Valley Corporation	2442	2166	3400	3199
4	Orissa	3717	2953	2929	1960
	West Bengal	7815	6401	4952	3940
6	Sikkim	98	49	0	0
	Bhutan	215	215	1484	1302
8	ISGS/IPPs	569	581	9822	9141
	Total ER	19476	16106	23187	20092
Ш	WESTERN REGION				
	Maharashtra	21458	15798	14993	9184
	Gujarat	14476	11561	12229	9172
	Madhya Pradesh	9964	8177	6187	4363
	Chattisgarh	4093	2962	3236	2276
	Daman and Diu	317	266	0	0
	Dadra and Nagar Haveli	687	547	0	0
	Goa-WR	493	314	0	0
8	ISGS/IPPs	2911	2930	30214	29222
	Total WR	54398	42554	66858	54217

V	SOUTHERN REGION				
	Andhra Pradesh	7547	6184	6287	5429
2	Telangana	8313	7248	3291	2469
3	Karnataka	8206	7674	6511	4550
4	Tamil Nadu	13810	11812	6465	6064
5	Kerala	3801	2320	1647	648
6	Pondy	391	282	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	13978	11953
	Total SR	42157	35609	38179	31114
/	NORTH-EASTERN REGION				
1	Arunachal Pradesh	130	86	0	0
2	Assam	1211	975	275	215
3	Manipur	163	76	0	0
4	Meghalaya	296	225	244	166
5	Mizoram	87	64	8	0
6	Nagaland	119	101	16	6
7	Tripura	240	151	90	90
8	ISGS/IPPs	98	59	1825	1488
	Total NER	2344	1737	2458	1965
	Total All India	166040	136815	173388	142316