National Load Despatch Centre Total Transfer Capability for September 2016

Issue Date: 29/8/2016 Issue Time: 1300 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 Sep 2016 to 30th Sep 2016	00-24	2500	500	2000	55	1945				
WR-NR*	1st Sep 2016 to 30th Sep 2016	00-24	6800	500	6300	6170	130				
	l I						.=.=				
	1st Sep 2016 to	00-06	2000		1800	93	1707				
NR-ER*	30th Sep 2016	06-18'	2000	200	1800	158	1642				
	_	18-24	2000		1800	93	1707				
ER-NR*	1st Sep 2016 to 30th Sep 2016	00-24	4400	300	4100	2531	1569				
W3-ER ^{\$}	1st Sep 2016 to 30th Sep 2016	00-24		No limit is being specified.							
ED WG	1st Sep 2016 to	00.24				N = 1:'-	- h -ii-: - 1				
ER-W3	30th Sep 2016	00-24	No limit is being specified.								
	· ·										
WR-SR	1st Sep 2016 to 30th Sep 2016	00-24	4000	750	3250	3250	0				
SR-WR*	1st Sep 2016 to 30th Sep 2016	00-24				No limit is	s being Specified.				
	1					ı					
	1st Sep 2016 to	00-06				2142	508				
	13th Sep 2016	06-18'	2650	2650 0	2650	2207	443				
ER-SR		18-24				2142	508				
EK-SK	14th Sep 2016	00-06				2585	65				
	to 30th Sep	06-18'	2650	0	2650	2650	0				
	2016	18-24				2585	65				
SR-ER *	1st Sep 2016 to 30th Sep 2016	00-24					s being Specified.				
	1										
	1st Sep 2016 to	00-17	1030		985		775				
ER-NER		17-23	940	45	895	210	685				
	30th Sep 2016	23-24	1030		985		775				
		00-17	1530		1485		1485				
NER-ER	1st Sep 2016 to	17-23	1500	45	1455	0	1455				
	30th Sep 2016	23-24	1530	.5	1485	, and the second	1485				
		23-24	1330		1405		1703				
W3 zone	1st Sep 2016 to							****			
Injection	30th Sep 2016	00-24	No limit is b	eing specified	d (In case of an	y constraints appear	aring in the system.	, W3 zone e	xport would be revised accordingly)		
		midon I	mont of Du-	ah and Imra	nt of DD & DN	III je uplaadad a	n NI DC wahaita -	ından Int	Degianal Section in Monthly		
ATC.	11 C 01 51-52 C01	riuor, in	iport of Punj	ав ана шіро	א עע ווי ווי	vii is upioaded of	ii MLDC website t	muer mtra	-Regional Section in Monthly		

^{*} 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 September 2016

Issue Date: 29/8/2016 Issue Time: 1300 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
----------	------	-------------------------	------------------------------------------	-----------------------	----------------------------------------------	----------------------------------------------------------------------	----------------------------------------------------------------	-------------------------------------------------	----------

- 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 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 one cicuit of 400 kV Biharshariff- Lakhisarai 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
ER-NER	Low Voltage at Gazuwaka (East) Bus. (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									
NR* 1st Sep 20. 30th Sep 2	1st Sep 2016 to	00-18	10800		10000		1299	1100	Revised considering the
	30th Sep 2016	18-23'	10000	800	9200	8701	499	300	present Inter-Regional
		23-24	10800		10000		1299	1100	flow pattern.
	1st Sep 2016 to 30th Sep 2016	00-17	1020	45	985	210	775		
NER		23-24	1030		963		113		
		17-23	940	Ĭ	895		685		
WD									
WR									
	1 at Cam 2016 to	00-06	6650		5900	5392	508		
	1st Sep 2016 to	06-18'	6650	750	5900	5457	443		
SR	13th Sep 2016	18-24	6650	Ī	5900	5392	508		
	144 0 2016	00-06	6650		5900	5835	65		
	14th Sep 2016 to	06-18'	6650	750	5900	5900	0		
	30th Sep 2016	18-24	6650	†	5900	5835	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 Sep 2016 to 30th Sep 2016	00-06 06-18'	4500	700	3800 3800	148 213	3652 3587		
	30th Sep 2010	18-24	4500		3800	148	3652		
NER	1st Sep 2016 to 30th Sep 2016	00-17 23-24	1530	45	1485	0	1485		
		17-23	1500		1455		1455		
WR									
SR *	1st Sep 2016 to 30th Sep 2016	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

	5 Combinantis						
		(n-1) contingency of one circuit of 400 kV Biharshariff- Lakhisarai 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.					
	E	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.					
	Export	(n-1) contingency of 400 kV Saranath-Pusauli					
		(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other 400/220 kV, 315 MVA					
NER		ICT at Misa. n-1 cntingency of 400/132 kV, 2 x 200 MVA ICTs at Silchar					
NEK	_	(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	T	(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 September 2016

Revisio n No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
n i vo	TKC VASION	Whole	STOA margin revised due to change in LTA/MTOA allocation	NR-ER/ NR-WR/ Simulaneous Export of NR
1	8/1/2016	month	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	26/8/2016	01-08-16 to 13-08-16	STOA margin revised due to outage of Talcher Stage-2 Unit - 6 approved in 121st OCC of SRPC.	ER-SR/ Import of SR
3	29/8/2016	Whole month	Revised considering the present Inter-Regional flow pattern	WR-NR/ Import of NR

ASSU	IMPTIONS IN BASECASE				
				Month : September '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	9400	8059	5466	5258
2	Haryana	7798	7260	2610	2610
3	Rajasthan	10027	10099	6333	6382
4	Delhi	4844	4498	962	962
5	Uttar Pradesh	13618	12577	7131	7179
6	Uttarakhand	1688	1250	804	722
7	Himachal Pradesh	1184	901	815	850
8	Jammu & Kashmir	2246	1356	841	807
9	Chandigarh	286	191	0	0
10	ISGS/IPPs	0	0	20482	15017
	Total NR	51091	46191	45444	39787
II	EASTERN REGION				
1	Bihar	3260	2746	200	110
2	Jharkhand	1023	883	400	350
3	Damodar Valley Corporation	2582	2207	3400	2871
4	Orissa	3708	2852	2929	2000
5	West Bengal	7601	6081	4768	3830
6	Sikkim	93	49	0	0
7	Bhutan	215	215	1504	1472
8	ISGS/IPPs	415	419	9645	9015
	Total ER	18897	15452	22846	19647
	WESTERN RESIGN				
III 1	WESTERN REGION Maharashtra	20103	13051	13552	9451
		14488	13051 8693	13552 11414	9451 5676
	Gujarat				
	Madhya Pradesh	8537	5486	4790	2285
	Chattisgarh	4088	2975	3236	1989
	Daman and Diu	314	229	0	0
	Dadra and Nagar Haveli	680	626	0	0
	Goa-WR	487	221	0	0
8	ISGS/IPPs	902	904	28078	22617
l	Total WR	49599	32185	61071	42019

V	SOUTHERN REGION				
	Andhra Pradesh	7073	5389	6385	5627
2	Telangana	9564	7551	4263	2964
3	Karnataka	9054	7496	6966	5130
4	Tamil Nadu	14003	12691	7036	5417
5	Kerala	3973	2663	1643	638
6	Pondy	391	327	0	0
7	Goa-SR	89	89	0	0
8	ISGS/IPPs	28	28	14187	11953
	Total SR	44175	36234	40480	31729
/	NORTH-EASTERN REGION				
1	Arunachal Pradesh	130	102	0	0
2	Assam	1228	1007	275	225
3	Manipur	164	76	0	0
4	Meghalaya	279	206	300	243
5	Mizoram	93	63	8	0
6	Nagaland	120	84	24	16
7	Tripura	234	148	91	91
8	ISGS/IPPs	100	60	1869	1763
	Total NER	2348	1746	2567	2338
	Total All India	166356	132052	173941	136992