National Load Despatch Centre Total Transfer Capability for July 2017

Issue Date: 18th July 2017

Issue Time: 1400 hrs

Revision No. 12

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 July 2017 to 31st July 2017	00-06 06-18 18-24	2500	500	2000	55 65 55	1945 1935 1945		-		
	1st July 2017 to 4th July 2017	00-24	9050	500	8550	7951	599				
	5th July 2017	00-530	9050	500	8550	7951	599				
	and	530-14	7750	500	7250	7951	0		_		
	6th July 2017	14-24	9050	500	8550	7951	599				
	7th July 2017	00-0730'	9050	500	8550	7951 7951	599 99				
WR-NR*	8th July 2017 to 14th July 2017	0730-24	8550 8550	500 500	8050 8050	7951	99				
	15th July 2017 to 18th July 2017	00-24	9050	500	8550	7951	599				
	19th July 2017	00-24	7550	500	7050	7951	0	-1500	Revised due to forced outage of HVDC Champa-Kurukshetra Pole-1		
	20th July 2017 to 31st July 2017	00-24	9050	500	8550	7951	599				
	1st July 2017 to	00-06	2000		1800	193	1607				
NR-ER*	31st July 2017 to	06-18'	2000	200	1800	303	1497				
	515t 541y 2017	18-24	2000		1800	193	1607				
ER-NR*	1st July 2017 to 31st July 2017	00-24	4500	300	4200	2983	1217				
W3-ER	1st July 2017 to 31st July 2017	00-24		No limit is being specified.							
ER-W3	1st July 2017 to 31st July 2017	00-24				No li	imit is being specifi	ed.			
		00-05	4350		3850		0				
	1st July 2017	05-22	4350	500	3850	3888	0				
		22-24	4350		3850		0				
		00-05 05-0730	4350 4350		3850 3850		0		-		
	2nd July 2017	0730-22	2950	500	2450	3888	0		-		
		22-24	2950		2450		0		-		
	3rd July 2017 to	00-05	4350		3850		0				
WR-SR	17th July 2017	05-22	4350	500	3850	3888	0				
		22-24	4350		3850		0				
	18th July 2017	00-05 05-09	4350 4350		3850 3850		0		-		
	and	09-14	3550	500	3050	3888	0		1		
	19th July 2017	14-22	4350		3850		0				
		22-24	4350		3850		0				
	20th July 2017 to	00-05	4350	500	3850	3888	0		-		
	31st July 2017	05-22 22-24	4350 4350	500	3850 3850	3000	0 0		-		
SR-WR *	1st July 2017 to	00-24	1550		5650	No li	mit is being Specif	ed			
	31st July 2017				I			icu.			
	1st July 2017 to	00-06 06-18'	3450	250	3200	3061 3146	139 54				
	8th July 2017	18-24	5+30	230	5200	3140	139				
		00-06	2450		2200	3061	139				
	09th July 2017	06-0830'	3450	250	3200	3146	54				
	0, ur sury 2017	0830-18	3100	200	2850	3146	0		_		
ER-SR		18-24	3450		3200	3061	139				
	10th July 2017 to	00-06 06-18'	3450	250	3200	3061 3146	139 54				
	13th July 2017	18-24	5750	250	5200	3140	139				
	14th July 2017 4-	00.06				2618	582				
	14th July 2017 to 31st July 2017	06-18	3450	250	3200	2703	497				
	2.2000419 2017	18-24				2618	582				

National Load Despatch Centre Total Transfer Capability for July 2017

Corridor	18th July 2017 Date	Time Period (hrs)	Total Transfer Capability (TTC)	e Time: 140 Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA) #	Margin Available for Short Term Open Access (STOA)	Revision No. 12 Changes in TTC w.r.t. Last Revision	Comments
SR-ER *	1st July 2017 to 31st July 2017	00-24				No li	mit is being Specifi	ied.	
		00.17	1025		990		765		
	1st July 2017 to	00-17	1035	45		225	765		
	4th July 2017	17-23	1010 1035	43	965		740		
ŀ		23-24 00-08	1035		990 990		765 765		
	5th July 2017	00-08	790	45	745	225	520		
ED NED					990				
ER-NER		16-17 17-23	1035 1010		990 965		765 740		
		23-24	1010		903	-	765		
-	6th July 2017 to 31st July 2017	00-17	1035	45	990 990		765		
		17-23	1033		965	225	740		
		23-24	1010		990		740		
		00-17	1180	45	1135	0	1135		
	1st July 2017 to	17-23	1050		1005		1005		
	4th July 2017	23-24	1180		1135		1135		
		00-08	1180		1135		1135		
		08-16	930		885		885		
NER-ER	5th July 2017	16-17	1180	45	1135	0	1135		
		17-23	1050		1005		1005		
		23-24	1180		1135		1135		
-		00-17	1180		1135		1135		
	6th July 2017 to	17-23	1050	45	1005	0	1005		
	31st July 2017	23-24	1180		1135		1135		
W3 zone	1st July 2017 to 31st July 2017	00-24	No limit is be	eing specified	(In case of any	constraints appear	ing in the system, V	W3 zone export would b	e revised 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).

1) S1 comprises of Telangana, AP and Karnataka; S2 comprises of Tamil Nadu and Puducherry; S3 comprises Kerala

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.

Simultaneous Import Capability

Corrido r	Date	Time Period (hrs)	Total Transfer Capability (TTC)	Reliability Margin	Available Transfer Capability (ATC)	Long Term Access (LTA)/ Medium Term Open Access (MTOA)		Changes in TTC w.r.t. Last Revision	Comments
ER									
		00-05	12900		12100		1166		
		05-08	12900		12100		1166		
	1st July 2017 to	08-18	12900	800	12100	10934	1166		
	4th July 2017	18-23	11600		10800		0		
		23-24	12900		12100		1166		
		00-0530	12900		12100		1166		
	54h July 2017	0530-08	11100		10300		0		
	5th July 2017	08-14	11100	800	10300	10024	0		
	and 6th July 2017	14-18	12900	800	12100	10934	1166		
	6th July 2017	18-23	11600		10800		0		
		23-24	12900		12100		1166		
		00-05	12900		12100		1166		
		05-0730	12900		12100		1166		
	7th July 2017	0730-18	12200	800	11400	10934	466		
		18-23	11000		10200		0		
		23-24	12200		11400		466		
		00-05	12200		11400		466		
NR	8th July 2017 to	05-08	12200		11400		466		
	14th July 2017	08-18	12200	800	11400	10934	466		
	1 mi sury 2017	18-23	11000		10200		0		
		23-24	12200		11400		466		
		00-05	12900		12100		1166		
	15th July 2017	05-08	12900	800	12100	10934	1166		
	to 18th July	08-18	12900		12100		1166		
	2017	18-23	11600		10800		0		
		23-24	12900		12100		1166	2100	
		00-05	10800		10000		0	-2100	
	104h July 2017	05-08	10800	200	10000	10024	0	-2100	Revised due to forced
	19th July 2017	08-18	10800	800	10000	10934	0	-2100	outage of HVDC Champa-
		18-23	9700		8900		0	-1900	Kurukshetra Pole-1
		23-24	10800		10000		0	-2100	
	20th July 2017	00-05	12900		12100 12100		1166		
	to 31st July	05-08 08-18	12900 12900	800	12100	10934	1166 1166		
	2017	18-23	12900	800	12100	10934	0		
	2017	23-24	12900		12100		1166		
		00-17	12900		990		765		
	1st July 2017 to	17-23	1033	45	990	225	740		
	4th July 2017	23-24	1010	r.J	905		740		
		00-08	1035		990		765		
		08-16	790		745		520		
NER	5th July 2017	16-17	1035	45	990	225	765		
- ,		17-23	1035		965		740		
		23-24	1010		990		765		
		00-17	1035		990		765		
	6th July 2017 to	17-23	1010	45	965	225	740	1	
	31st July 2017	23-24	1035		990		765	1	
WR		-							
		00-05	7800		7050	6949	101		
		05-06	7800		7050	<u> </u>	101		
SR	1st July 2017	05-00	7800	750	7050	7034	101		
	150 July 2017	18-22	7800	750	7050	6949	101		
		22-24	7800		7050	<u> </u>	101		

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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			05-06	7800		7050	6506	544		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		18th July 2017	06-09	7800		7050	6591	459		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		and	09-14	7000	750	6250	6591	0		
22-24 7800 7050 6506 544 00-05 7800 7050 6506 544 20th July 2017 05-06 7800 7050 6506 544 to 06-18 7800 750 7050 6591 459		19th July 2017	14-18	7800]	7050	6591	459		
00-05 7800 7050 6506 544 20th July 2017 05-06 7800 7050 6506 544 to 06-18 7800 750 7050 6591 459			18-22	7800]	7050	6506	544		
20th July 201705-06780070506506544to06-18780075070506591459			22-24	7800	1	7050	6506	544		
20th July 201705-06780070506506544to06-18780075070506591459			00-05	7800		7050	6506	544		
to 06-18 7800 750 7050 6591 459		20th July 2017			1					
		-			750				1	
		31st July 2017	18-22	7800	1	7050	6506	544		
22-24 7800 7050 6506 544		-			1					

* 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

Corrido r	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 July 2017 to	00-06	4500		3800	248	3552			
NR*	31st July 2017	06-18'		700	3800	368	3432			
	5	18-24	4500		3800	248	3552			
	1st July 2017 to 4th July 2017	00-17	1180	45	1135		1135			
		17-23	1050		1005	0	1005			
		23-24	1180		1135		1135			
		00-08	1180		1135		1135			
		08-16	930		885		885			
NER	5th July 2017	16-17	1180	45	1135		1135			
		17-23	1050		1005		1005			
		23-24	1180		1135		1135			
	6th July 2017 to	00-17	1180		1135		1135			
	31st July 2017 to	17-23	1050	45	1005	0	1005			
	51st July 2017	23-24	1180		1135		1135			
WD										
WR										
SR *	1st July 2017 to 31st July 2017	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).

Corridor	Constraint	Applicable Revisions
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	All
	(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.	All
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 and restriction on power flow of HVDC V'chal from WR to NR.	Rev 8 - 10
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	All
ER-NR	(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/c and high availability of Hydro power	All
	(n-1) contingency of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 0
	(n-1) contingency of 400 kV Dichipalli-Ramagundam or (n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 1-4, Rev 6-8, 10
WR-SR & ER- SR	(n-1) contingency of other ckt of 765kV Raichur-Sholapur will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 5
	(n-1) contingency of One pole will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri-i is under annual maintenance)	Rev 9
	(n-1) contingency of ICT # 2 at Nizamabad will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri-i is under annual maintenance)	Rev 11,12
	Low Voltage at Gazuwaka (East) Bus.	All
ER-NER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
NER-ER	(n-1) contingency of 400 kV Byrnihat - Bongaigaon line High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
W3 zone Injection		

Limiting Constraints (Simultaneous)

			Applicable Revisions
		(n-1) contingencies of N.Ranchi - Chandawa S/c & (n-1) contingencies of 400kV MPL- Maithon S/C and high availability of Hydro power	All
	Import	(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.	All
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 and restriction on power flow of HVDC V'chal from WR to NR. 	Rev 8-10
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod- Modak.	All
		(n-1) contingency of 400 kV Saranath-Pusauli	All
NED	Import	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
NER	Export	(n-1) contingency of 400 kV Byrnihat - Bongaigaon line High loading of 220 kV Sonabil-Samaguri line(200 MW)	All
		(n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 0
		(n-1) contingency of 400 kV Dichipalli-Ramagundam or (n-1) contingency of one circuit of 765kV Aurangabad-Sholapur will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C)	Rev 1-4, Rev 6-8, 10
SR	Import	(n-1) contingency of other ckt of 765kV Raichur-Sholapur will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna	Rev 5
		(n-1) contingency of One pole will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri- i is under annual maintenance)	Rev 9
		(n-1) contingency of ICT # 2 at Nizamabad will lead to 874MW loading on 400kV Vemagiri(PG)-Gazuwaka (With Opening of 400kV Vemagiri(PG)-Nunna S/C and one unit at simhadri-i is under annual maintenance)	Rev 11,12
		Low Voltage at Gazuwaka (East) Bus	All

National Load Despatch Centre Total Transfer Capability for July 2017

Revision Date of		Period of	Reason for Revision	Corridor	
No	Revision	Revision Revision		Affected	
			STOA Margins revised due to change in LTA / MTOA approved by CTU	ER - NR / Import of NR	
1	27th April 2017	Whole month	Revised considering commissioning of one pole of HVDC Champa - Kurukshetra,the present load generation balance and change in LTA/MTOA approved by CTU	WR - NR / Import of NR	
			Revised considering the commissioning of 765 kV Durg - Wardha D/C, second ICT at Vemagiri, 765 kV Wardha - Nizamabad D/C, two ICTs at Nizamabad, and 400 kV Nizamabad-Dichipally D/C.	WR - SR / ER - SR / Import of SR	
2	5th May 2017	Whole month	Revised considering the latest LTA/MTOA granted by CTU	WR - SR / ER - SR / Import of SR	
3	9th May 2017	Whole month	Revised considering the latest LTA/MTOA granted by CTU	WR - SR / Import of SR	
4	23rd May 2017	Whole month	Revised considering present Inter-regional flow pattern	Import of NR	
5	01st July 2017	02nd July 2017	Revised due to shutdown of 765kV Raichur-Sholapur-1	WR - SR / Import of SR	
6	03rd July 2017	05th July 2017	Revised due to day-time shutdown of 400/220 kV ICT-II at Misa Substation	ER - NER /NER- ER	
7	04th July 2017	05th & 06th July 2017	Due to Shutdown of Champa-Kurukshetra pole-1 for testing of Pole-2	WR-NR/ NR Import	
8	06th July 2017	07th to 14 July 2017	Revised due to shutdown of HVDC Rihand Dadri Pole-1	WR-NR/ NR Import	
9	7th July 2017	9th July 2017	Revised due to shutdown of 400kV Rengali-Indravati S/C	ER-SR/SR Import	
10	13th July 2017	upto 31st July 2017	Revised STOA margins due to planned shutdown of Unit#4 of Talcher Stg-II for 45 days	ER-SR/SR Import	
11	17th July 2017 July 2017		Revised Due to Shutdown of one ICT at Nizamabad SS	WR-SR/SR Import	
12	18th July 2017	19th July 2017	Revised due to forced outage of HVDC Champa-Kurukshetra Pole-1	WR-NR/ NR Import	

	MPTIONS IN BASECASE			Month : July'17	
S.No.	Name of State/Area	Load		Generation	
5.110.		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
	NORTHERN REGION	Feak LOau (IVIVV)	OII FEAK LUAU (IVIV)	reak (IVIVV)	
1	Punjab	10671	0400	4005	4200
	Haryana		9480	4285	4302
	Rajasthan	8203	8052	1533	1533
	Delhi	8264	9534	4458	4458
	Uttar Pradesh	5767	6332	940	940
	Uttarakhand	14322	14317	10032	10036 962
	Himachal Pradesh	1869	1634	985	
	Jammu & Kashmir	1184	1068	921	863
		2359	1498	<u>920</u> 0	930
9	Chandigarh ISGS/IPPs	327	300	-	0
10	Total NR	27	27	19979	18386
	TOTALINK	52992	52241	44053	42410
	EASTERN REGION				
	Bihar	3920	2608	238	238
	Jharkhand	1193	836	397	337
	Damodar Valley Corporation	2961	2554	4468	3768
		4173	3199	3342	2325
	West Bengal	8359	5800	5216	4148
	Sikkim	88	89	0	0
	Bhutan	245	245	982	982
8	ISGS/IPPs	560	567	11255	8518
	Total ER	21469	15868	25869	20286
	WESTERN REGION				
	Maharashtra	14940	11898	9694	7279
	Gujarat	12432	10131	9835	7466
	Madhya Pradesh	7044	5925	3569	3099
	Chattisgarh	3353	3104	1915	2461
	Daman and Diu	286	279	0	0
6	Dadra and Nagar Haveli	740	717	0	0
7		399	296	0	0
8	ISGS/IPPs	2701	2844	32655	29850
	Total WR	41896	35194	57668	50154
V	SOUTHERN REGION				
1	Andhra Pradesh	7900	7330	6080	5500
2	Telangana	7305	5815	4523	3329
	Karnataka	8717	7530	5689	4314
	Tamil Nadu	14750	12574	8145	6750
5	Kerala	3450	1780	1499	283
	Pondy	395	395	0	0
	Goa-SR	89	89	0	0
8	ISGS/IPPs	0	0	11044	9692
	Total SR	42606	35513	36980	29868
/	NORTH-EASTERN REGION				
1	Arunachal Pradesh	143	89	0	0
2	Assam	1227	1069	240	200
3	Manipur	150	76	0	0
	Meghalaya	268	200	214	164
	Mizoram	95	69	8	8
	Nagaland	122	83	22	16
	Tripura	254	157	75	75
	ISGS/IPPs	100	60	2030	1888
	Total NER	2359	1803	2589	2351
		2000	1000	2000	2001
	Total All India	161566	140864	168142	146052