National Load Despatch Centre Total Transfer Capability for May 2018

Issue Date: 3rd May 2018 Issue Time: 1900 hrs Revision No. 7

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
	1st May 2018 to	00-06				55	1945		
NR-WR*	31st May 2018	06-18	2500	500	2000	65	1935		
	,	18-24				55	1945		
	1st May 2018 to		10300		9800	9179	621		
	3rd May 2018	00-24	9350**	500	8850**	8229**	621**		
			7330		0030	022)	021		
			7700		7200	9179	0		
WR-NR*	4th May 2018 to 11th May 2018	00-24		500					
	11th 11th 2010		6750**		6250**	8229**	0**		
	12d- M 2019		10300		9800	9179	621		
	12th May 2018 to 31st May	00-24	10300	500	9000	9179	021		
	2018		9350**		8850**	8229**	621**		
NR-ER*	1st May 2018 to	00-06 06-18	2000 2000	200	1800 1800	193 303	1607 1497		
IVK-EK	31st May 2018		2000	200	1800	193	1607		
ER-NR*	1st May 2018 to 31st May 2018	00-24	4500	300	4200	3239	961		
W3-ER	1st May 2018 to 31st May 2018	00-24				No lim	it is being specified	d.	
ER-W3	1st May 2018 to 31st May 2018	00-24				No lim	it is being specifie	d.	
		00-05	5150		4650		235		
	1st May 2018 to	05-22	5150	500	4650	4415	235		
	3rd May 2018	22-24	5150		4650		235		
		00-0930	5150		4650		235		
		0930-18	4950	-	4450	441-	35		
WR-SR	4th May 2018	18-22	5150	500	4650	4415	235		
		22-24	5150		4650		235		
		00-05	5150		4650		235		
	5th May 2018 to 31st May 2018	05-22	5150	500	4650	4415	235		
	513t Way 2016	22-24	5150		4650		235		
SR-WR*	1st May 2018 to 31st May 2018	00-24				No lim	it is being Specifie	d.	

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		00-06				3262	838				
	1st May 2018 to										
ER-SR	31st May 2018	06-18	4350	250	4100	3347	753				
		18-24				3262	838				
SR-ER *	1st May 2018 to 31st May 2018	00-24		No limit is being Specified.							
		00.45	1270		1207		000	1			
	1st May 2018 to 4th May 2018	00-17	1250	45	1205	225	980				
		17-23 23-24	1110 1250		1065 1205	223	980 980	-			
	5th May 2018	00-08	1250		1205		980				
		08-17	1020		975	225	750	-230	Revised due to daytime shutdown of 400		
ER-NER		17-23	980	45	935		710		kV Bongaigaon-Azara S/C		
		23-24	1020		975		750	-230			
		00-17	1250	45	1205	225	980	200			
	6th May 2018 to	17-23	1110		1065		840	1			
	31st May 2018	23-24	1250		1205		980	•			
	1 . 14 2010 .	00-17	1760		1715		1715				
	1st May 2018 to		17-23	1780	45	1735	0	1735			
	4th May 2018	23-24	1760		1715		1715				
		00-08	1760		1715		1715				
NER-ER	5th May 2018	08-17	1620	45	1575	0	1575	-140	Revised due to daytime shutdown of 400		
NEK-EK	3111 Way 2016	17-23	1560	43	1515	U	1515	-220	kV Bongaigaon-Azara S/C		
		23-24	1620		1575		1575	-140			
	6th May 2018 to	00-17	1760		1715		1715				
	31st May 2018	17-23	1780	45	1735	0	1735				
	213t 11tay 2010	23-24	1760		1715		1715				
W3 zone Injection	1 (0) 24 INo limit is being specified (In case of any constraints appearing in the system W3 zone export would be revised accordingly)										

Note: TTC/ATC of S1-(S2&S3) corridor, Import of S3(Kerala), Import of Punjab and Import of DD & DNH is uploaded on NLDC website under Intra-Regional Section in Monthly ATC.

- 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.

^{*} 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).

^{**}Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW ex-bus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

Simultaneous Import Capability

Second S	
1st May 2018 to 3rd May 2018 to 3rd May 2018 to 114700	
NR 4th May 2018 to 11th May 2018 to 12th	
Ist May 2018 to 3rd May 2018 to 3rd May 2018 to 18-23	
1st May 2018 to 3rd May 2018 18-23	
NR 4th May 2018 to 11th May 2018 to 11th May 2018 to 11th May 2018 to 123-24	
NR 4th May 2018 to 11th May 2018 to 23-24	
NR 4th May 2018 to 11th May 2018 to 23-24	
NR 4th May 2018 to 11th May 2018 to 123-24 11000 10200 10200 11468** 13750**	
NR 4th May 2018 to 11th May 2018 to 11th May 2018 to 23-24 11000 10200 0 0 0** 110200 0 0 0 0 0** 9250** 0 0** 9100 12418 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
NR 4th May 2018 to 11th May 2018 to 23-24 11000 23-24 900 800 9250** 0** 0**	
NR 4th May 2018 to 11th May 2018 to 11th May 2018 to 23-24 11000 10200 0** Value of the property of the pro	
NR 4th May 2018 to 11th May 2018	
NR 4th May 2018 to 11th May 2018 18-23 8950** 800 8150** 11468** 0**	
NR 4th May 2018 to 11th May 2018 18-23 8950** 800 8150** 11468** 0**	
11th May 2018 8950** 8150** 11468** 0** 11000 23-24	
23-24	
23-24	
10050** 9250** 0**	
14700 13900 1482	
00-18 13750** 12950** 1482**	
12th May 2018 13200 12400 12418 0	
to 31st May 18-23 800	
2018 12250** 11450** 11468** 0**	
14700 13900 1482	
23-24	
13750** 12950** 1482**	
1st May 2018 to 00-17 1250 1205 225 840	
4th May 2018 17-23 1110 43 1065 223 840 980	
00-08 1250 1205 980	
NED 5th May 2018 08-17 1020 45 975 225 750 -230 Revised	d due to daytime shutdown of
NER 5th May 2018 17-23 980 45 935 225 710 -130 400 kV	Bongaigaon-Azara S/C
23-24 1020 975 750 -230	
6th May 2018 to 00-17 1250 1205 980	
31st May 2018 17-23 1110 45 1065 225 840 980	
WR	

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
		00-05	9500		8750	7677	1073		
	4 . 14 . 2010 .	05-06	9500		8750	7677	1073		
	1st May 2018 to 3rd May 2018	06-18	9500	750	8750	7762	988		
	Sid May 2010	18-22	9500		8750	7677	1073		
		22-24	9500		8750	7677	1073		
	4thMay 2018	00-0930	9500	750	8750	7677	1073		
SR		0930-18	9300		8550	7677	873		
	Tuning 2010	18-22	9500		8750	7762	988		
		22-24	9500		8750	7677	1073		
		00-05	9500		8750	7677	1073		
		05-06	9500	750	8750	7677	1073		
	5th May 2018 to 31st May 2018	06-18	9500		8750	7762	988		
	2 230 10149 2010	18-22	9500		8750	7677	1073		
		22-24	9500		8750	7677	1073		

^{*} 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 = A * B/(B+C)Margin for ER-NR Applicants = A * C/(B+C)

^{**}Considering 400 kV Rihand stage-III - Vindhyachal PS D/C line as inter-regional line for the purpose of scheduling, metering and accounting and 950 MW exbus generation in Rihand stage-III. Rihand Stage-III generation is considered as NR regional entity.

^{*} 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:

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	
	1st May 2018 to	00-06	4500		3800	248	3552			
NR*	31st May 2018	06-18		700	3800	368	3432			
	31st Way 2016	18-24	4500		3800	248	3552			
	1st May 2018 to 4th May 2018	00-17	1760	45	1715	0	1715			
		17-23	1780		1735		1735			
		23-24	1760		1715		1715			
	5th May 2018	00-08	1760	45	1715	0	1715		Revised due to daytime	
NER		08-17			-45		-45	-140	shutdown of 400 kV	
NEK		17-23	1780		1735		1735	-220		
		23-24	1760		1715		1715	-140	Bongaigaon-Azara S/C	
	64 M 2010 4	00-17	1760		1715		1715			
	6th May 2018 to	17-23	1780	45	1735	0	1735			
	31st May 2018	23-24	1760	1	1715		1715			
WD										
WR										
SR *	1st May 2018 to 31st May 2018	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 (Corridor wise)

		Applicable Revisions
Corridor	Constraint	
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 7
WR-NR	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 4
VV IX-1VIX	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 5 to 6
	Restriction on Mundra Mahindragarh power flow due to high loading on 765/400 kV Vadodara ICTs	Rev-6 to 7
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 7
ER-NR	1. N-1 contingencies of 400 kv Mejia-Maithon A S/c 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/C	Rev-0 to 7
and ER-	a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service) b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service)	Rev-0 to 1
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 7
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-2 to 7
	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 7
NER-ER	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 7
W3 zone Injection		Rev-0 to 7

Limiting Constraints (Simultaneous)

			Applicable Revisions
		1. N-1 contingencies of 400 kv Mejia-Maithon A S/c 2. N-1 contingencies of 400 kv Kahalgaon-Banka S/c 3. N-1 contingencies of 400kV MPL- Maithon S/c	Rev- 0 to 7
	Import	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 4
NR		(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 5 to 7
		Restriction on Mundra Mahindragarh power flow due to high loading on 765/400 kV Vadodara ICTs	Rev-6 to 7
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 7
	Ziipoit	(n-1) contingency of 400 kV Saranath-Pusauli	1101 0 10 7
NER	Import	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misab. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 7
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 7
SR	Import	a. (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C will lead to 874 MW loading on 400kV Vemagiri(PG)-Gazuwaka (When 400kV Vemagiri(PG)-Nunna S/C is not in service) b. (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C will lead to high loading (874 MW) on 400 kV Vemagiri - Gazuwaka S/C (When 400 kV Vemagiri(PG) - Nunna S/C in kept in service)	Rev-0 to 1
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 7
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-2 to 7

National Load Despatch Centre Total Transfer Capability for May 2018

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	26th Feb	Whole Month	Revised STOA margin due to (a) 50 MW allocation to Karnataka from NTPC WR plants (b) 5 MW allocation to Telangana from NTPC WR plants	WR- SR/Import of SR
	2018		Revised STOA margins due to change in Talcher Stg-II DC	ER- SR/Import of SR
2	23rd March 2018	Whole Month	1. Revised due to commissioning/ reconfugration of following lines: (a) Commissioning of 400kV Vijaywada(PG)-Vemagiri (PG) Ckt 2 & 3 (b) Commissioning of 400kV Vemagiri (PG)-Vemagiri (AP) 1 & 2 (c) Vemagiri (AP) end of 400 kV Simhadri II - Vemagiri (AP)-ckt 1 & 2 moved to 400 kV Vemagiri (PG) 2. With the commissioning/ reconfugration of above lines, TTC/ATC for Import of SR remains unchanged however the relative sensitivity of ER-SR and WR-SR to net import of SR has changed. The limiting constraint which was earlier (n-1) contingency of one ckt of 765 kV Wardha-Nizamabad D/C and (n-1) contingency of 400 kV Vemagiri - Vijaywada S/C has also shifted to n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG).	
3	27th March 2018	Whole Month	Revised STOA margin due to 200 MW LTA from Bokaro TPS-A of DVC to PSPCL	ER- NR/Import of NR
4	2nd April 2018	Whole Month	Revised STOA margins due to change in allocation from WR-ISGS to J&K, to WR-ISGS to Gujarat	WR- NR/Import of NR
5	26th April 2018 Whole Month (t & p		Revised considering (a) newly commisioned 765kV Jabalpur-Orai D/C, Orai-Aliagarh D/C, LILO 765kV Satna-Gwalior-1 S/C at Orai , 2*1000MVA 765/400kV Orai ICTs, 400kV Orai PG- Orai UP D/C, LILO of 765kV Kanpur-Jhatikara S/C at Aligarh, LILO of 765kV Agra-Greater Noida at Aligarh and (b) considering forced outage of 765kV Agra-Jhatikara S/C & 765kV Gaya-Varanasi-2 and (c) due to restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra	WR- NR/Import of NR
6	3rd May 2018	4th May 2018 to 11th May 2018	Revised TTC/ATC due to (a) Forced outage of following elements: 1. 765 kV Agra Gwalior D/C 2. 765 kV Agra Aligarh S/C 3. 765 kV Agra - Fatehpur D/C 4. 765 kV Agra Jhatikara S/C 5. 765/400 kV Agra ICTs 6. Outage of HVDC BNC -Alipurduar-Agra 7. 765 kV Kanpur Varanasi D/C 8. 400 kV Agra Kanpur S/C (b) Frequent outage of HVDC Champa Kurukshetra Pole (c) Restriction on Mundra Mohindragarh power flow due to high loading on 765/400 kV Vadodara ICTs	WR- NR/Import of NR
		4th May 2018	Revised due to day time shutdown of 765/400 kV Nizamabad ICT-2	WR- SR/Import of SR
7	03rd May 2018	5th May 2018	Revised due to daytime shutdown of 400 kV Bongaigaon- Azara S/C	ER-NER/NER- ER/Import/E xport of NER

ASSUM	MPTIONS IN BASECASE				
				Month : May'18	
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	8479	8228	4059	4077
2	Haryana	7777	7660	2139	2139
3	Rajasthan	10146	10147	6390	6337
4	Delhi	5760	5526	691	691
5	Uttar Pradesh	16367	16149	9969	9915
6	Uttarakhand	1886	1687	912	833
7	Himachal Pradesh	1484	1329	589	530
8	Jammu & Kashmir	2851	1640	1079	1071
9	Chandigarh	304	232	0	0
10	ISGS/IPPs	25	25	20090	17008
	Total NR	55078	52624	45919	42602
П	EASTERN REGION				
1	Bihar	3971	2726	310	181
2	Jharkhand	1187	871	384	210
3	Damodar Valley Corporation	2952	2684	4767	4014
4	Orissa	3930	3132	3005	2282
5	West Bengal	7664	5659	5432	4259
6	Sikkim	85	50	0	0
7	Bhutan	212	219	614	582
8	ISGS/IPPs	266	260	11286	9307
	Total ER	20265	15602	25799	20836
Ш	WESTERN REGION				
1	Maharashtra	18958	18097	11630	10987
2	Gujarat	14011	14396	8909	8909
3	Madhya Pradesh	7898	7788	2992	2992
4	Chattisgarh	3443	3568	2270	2740
5	Daman and Diu	304	293	0	0
6	Dadra and Nagar Haveli	762	742	0	0
7	Goa-WR	472	416	0	0
8	ISGS/IPPs	3852	3656	39424	39424
	Total WR	49700	48955	65225	65052

S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
IV	SOUTHERN REGION				
1	Andhra Pradesh	8600	8600	5740	4856
2	Telangana	7546	6122	3759	3063
3	Karnataka	9394	8077	4623	4966
4	Tamil Nadu	15200	13500	8660	6510
5	Kerala	4000	2400	1474	120
6	Pondy	372	372	0	0
7	Goa-SR	84	89	0	0
8	ISGS/IPPs	0	0	15094	13476
	Total SR	45196	39161	39350	32991
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	133	74	0	0
2	Assam	1227	964	245	150
3	Manipur	168	87	0	0
4	Meghalaya	289	195	223	157
5	Mizoram	101	69	8	8
6	Nagaland	117	82	16	8
7	Tripura	240	158	78	78
8	ISGS/IPPs	140	140	1955	1576
	Total NER	2415	1769	2525	1977
	Total All India	173094	158505	179486	164078