National Load Despatch Centre Total Transfer Capability for May 2018

Issue Date: 3rd May 2018

Issue Time: 1200 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		
NR-WR*	1st May 2018 to	00-06 06-18	2500	500	2000	55 65	1945 1935				
	31st May 2018	18-24	2300	500	2000	55	1935				
	1st May 2018 to 3rd May 2018	00-24	10300	500	9800	9179	621				
	510 May 2018		9350**		8850**	8229**	621**				
WR-NR*	4th May 2018 to 11th May 2018	00-24	7700 6750**	500	7200 6250**	9179 8229**	0	-2600	Revised TTC/ATC due to (a) Forced outage of following elements: 1. 765 kV Agra Gwalior D/C 2. 765 kV Agra Gwalior D/C 3. 765 kV Agra Aligarh S/C 3. 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		
	12th May 2018 to 31st May	00-24	10300	500	9800	9179	621				
	2018		9350**		8850**	8229**	621**				
		00.04	2000		1000	102	1607				
NR-ER*	1st May 2018 to	00-06	2000 2000	200	1800 1800	193 303	1607 1497				
	31st May 2018	18-24	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 limit is being specified.								
ER-W3	1st May 2018 to 31st May 2018	00-24		No limit is being specified.							

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Corridor

WR-SR

SR-WR *

ER-SR

SR-ER *

ER-NER

NER-ER

W3 zone

Injection

Issue Time: 1200 hrs

Long Term Margin Changes Total Available Access (LTA)/ Available for in TTC Time Transfer Reliability Transfer Date Period Medium Term Short Term w.r.t. Comments Capability Margin Capability (hrs) **Open Access Open Access** Last (TTC) (ATC) (MTOA) # (STOA) Revision 00-05 4650 5150 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 35 -200 Revised due to day time shutdown of 4th May 2018 500 4415 765/400 kV Nizamabad ICT-2 18-22 4650 5150 235 22-24 5150 4650 235 00-05 5150 4650 235 5th May 2018 to 05-22 5150 500 4650 4415 235 31st May 2018 4650 235 22-24 5150 1st May 2018 to No limit is being Specified. 00-24 31st May 2018 00-06 3262 838 1st May 2018 to 4100 06-18 4350 250 3347 753 31st May 2018 18-24 3262 838 1st May 2018 to No limit is being Specified. 00-24 31st May 2018 00-17 1250 1205 980 1st May 2018 to 17-23 45 1065 225 1110 840 31st May 2018 23-24 1250 1205 980 00-17 1760 1715 1715 1st May 2018 to 45 0 17-23 1780 1735 1735 31st May 2018 23-24 1760 1715 1715 1st May 2018 to 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly) 31st May 2018

Revision No. 6

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.

* 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.

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)	Margin Available for Short Term Open Access (STOA)	Changes in TTC w.r.t. Last Revision	Comments
ER									
		00-18	14700		13900		1482		
	1st May 2018 to	18-23	13750** 13200	800	12950** 12400	12418	1482** 0		
	3rd May 2018	23-24	12250** 14700		11450** 13900	11468**	0** 1482		
		23-24	13750**		12950**		1482**		
	4th May 2018 to 11th May 2018	00-18	11000 10050**	800	10200 9250**		0**	-3700	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
NR		18-23	9900 8950**		9100 8150**	12418 11468**	0**	-3300	 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
		23-24	11000 10050**		10200 9250**		0**	-3700	 (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
		00-18	14700 13750**		13900 12950**		1482 1482**		
	12th May 2018 to 31st May 2018	18-23	13200 12250**	800	12400 11450**	12418 11468**	0 0**		
		23-24	14700 13750**		13900 12950**		1482 1482**		
NER	1st May 2018 to 31st May 2018	00-17 17-23 23-24	1250 1110 1250	45	1205 1065 1205	225	980 840 980		
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		
	1	05-06	9500		8750	7677	1073		
	1st May 2018 to 3rd May 2018	06-18	9500	750	8750	7762	988		
	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	-200	Revised due to day time shutdown of
511		18-22	9500		8750	7762	988		765/400 kV Nizamabad ICT-2
		22-24	9500		8750	7677	1073		
		00-05	9500		8750	7677	1073		
		05-06	9500		8750	7677	1073		
	5th May 2018 to 31st May 2018	06-18	9500	750	8750	7762	988		
		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).

**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: 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 May 2018 to 31st May 2018	06-18	4500	700	3800 3800	248 368	3552 3432		
		18-24	4500		3800	248	3552		
	1st May 2018 to	00-17	1760	45	1715	0	1715		
NER	31st May 2018	17-23	1780		1735		1735		
	515t May 2010	23-24	1760		1715		1715		
WR									
WK									
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 6
WR-NR	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 4
W K-1 (K	(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
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 6
ER-NR	 N-1 contingencies of 400 kv Mejia-Maithon A S/c N-1 contingencies of 400 kv Kahalgaon-Banka S/c N-1 contingencies of 400kV MPL- Maithon S/C 	Rev-0 to 6
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 6
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-2 to 6
ER-NER	 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 6
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 6
W3 zone Injection		Rev-0 to 6

Limiting Constraints (Simultaneous)

			Applicable Revisions
		 N-1 contingencies of 400 kv Mejia-Maithon A S/c N-1 contingencies of 400 kv Kahalgaon-Banka S/c N-1 contingencies of 400kV MPL- Maithon S/c 	Rev- 0 to 6
	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 6
		Restriction on Mundra Mahindragarh power flow due to high loading on 765/400 kV Vadodara ICTs	Rev-6
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 6
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 6
	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 6
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 6
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-2 to 6

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 2018	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 ER- SR/Import of
2	23rd March 2018	Whole Month	Revised STOA margins due to change in Talcher Stg-II DC 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).	SR ER-SR/WR- SR
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	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 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

ASSUN	IPTIONS 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)
Ι	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
	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	2332	2332
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
5	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