National Load Despatch Centre Total Transfer Capability for June 2018

Issue Date: 31st May 2018 Issue Time: 1200 hrs Revision No. 8

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 June 2018 to 30th June 2018	00-06 06-18 18-24	2500	500	2000	100 110 100	1900 1890 1900			
WR-NR*	1st June 2018 to 30th June 2018	00-24	10000	500	9500 8550**	9127 8177**	373 373**			
	l									
NR-ER*	1st June 2018 to	00-06 06-18	2000	200	1800 1800	193 303	1607 1497			
T(K-LK	30th June 2018	18-24	2000	200	1800	193	1607			
ER-NR*	1st June 2018 to 30th June 2018	00-24	5250	300	4950	3407	1543			
W3-ER	1st June 2018 to 30th June 2018	00-24				No limi	t is being specified			
ER-W3	1st June 2018 to 30th June 2018	00-24				No limi	t is being specified			
		00-07	5150		4650		135			
	1 at Ivma 2019			500		4515				
	1st June 2018	07-22	4150	500	3650	4515	0			
		22-24	4150	500	3650	4515	0			
TYP CP	2nd June 2018	00-05	4150		3650		0			
WR-SR	to 09th June 2018	05-22	4150	500	3650	4515	0			
		22-24	4150		3650		0			
	10th June 2018	00-05	5150		4650	4515	135			
	to 30th June 2018	05-22	5150	500	4650		135			
	2010	22-24	5150		4650		135			
SR-WR *	1st June 2018 to 30th June 2018	00-24				No limi	t is being Specified			
		00-06				3263	837			
ER-SR	1st June 2018 to	06-18	4350	250	4100	3348	752			
	30th June 2018	18-24				3263	837	1		
SR-ER *	1st June 2018 to 30th June 2018	00-24				No limi	t is being Specified			
		00-09	1200		1155		930	-50	Deviced due to deve to 1	
		09-17	980		935		710	-270	Revised due to change in load - generation pattern of NER & addition of	
	1st June 2018			45		225			Pare HEP (2*55 MW) along-with	
ER-NER		17-23	950		905	-	680	-160	daytime shutdown of 400 kV Bongaigaon-Azara S/C	
		23-24	980		935		710	-270	<u> </u>	
	2nd June 2018 to 30th June	00-17 17-23	1200 1100	45	1155 1055	225	930 830	-50 -10	Revised due to change in load - generation pattern of NER and addition	
	2018	23-24	1200	43	1155	223	930	-50	of Pare HEP (2*55 MW)	
		00-09	1710		1665		1665	-50	Revised due to change in load -	
	1 . 7 . 2015	09-17	1600		1555		1555	-160	generation pattern of NER & addition of	
	1st June 2018	17-23	1570	45	1525	0	1525	-210	Pare HEP (2*55 MW) along-with daytime shutdown of 400 kV	
NER-ER		23-24	1600		1555		1555	-160	Bongaigaon-Azara S/C	
	2nd June 2018	00-17	1710		1665		1665	-50	Revised due to change in load -	
	to 30th June	17-23	1760	45	1715	0	1715	-20	generation pattern of NER and addition	
	2018	23-24	1710		1665		1665	-50	of Pare HEP (2*55 MW)	

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W3 zone Injection	1st June 2018 to 30th June 2018	00-24	No limit is bo	eing specified	(In case ofany	constraints appear	ing in the system, V	W3 zone ex	port 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

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 June 2018 to 30th June 2018	00-18	14300 13350** 12800 11850**	800	13500 12550** 12000 11050**	12592 11642**	908 908** 0 0**		
		23-24	14300 13350**		13500 12550**		908 908**		
		00-09	1200	45	1155		930	-50	Revised due to change in load - generation pattern of NER & addition of Pare HEP (2*55
		09-17	980		935	225	710	-270	
NIED	1st June 2018	17-23	950		905		680	-160	MW) along-with daytime shutdown of 400 kV
NER		23-24	980		935		710	-270	Bongaigaon-Azara S/C
	2nd June 2018	00-17	1200		1155		930	-50	Revised due to change in load -
	to 30th June 2018	17-23	1100	45	1055	225	830	-10	generation pattern of NER and addition of Pare HEP (2*55
	2018	23-24	1200		1155		930	-50	MW)
WR									
		00-05	9500		8750	7778	972		
		05-06	9500		8750	7778	972		
SR	1st June 2018	06-07	9500	750	8750	7863	887		
	2010 2010	07-18	8500		7750	7863	0		
		18-22	8500		7750	7778	0		
		22-24	8500		7750	7778	0		

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
		00-05	8500		7750	7778	0		
	2nd June 2018	05-06	8500	750	7750	7778	0		
	to 09th June 2018	06-18	8500		7750	7863	0		
		18-22	8500		7750	7778	0		
SR		22-24	8500		7750	7778	0		
SK		00-05	9500		8750	7778	972		
	10th June 2018	05-06	9500	750	8750	7778	972		
	to 30th June	06-18	9500		8750	7863	887		
	2018	18-22	9500		8750	7778	972		
		22-24	9500		8750	7778	972		

^{*} 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.

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)

^{*} 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	
NR*	1st June 2018 to	00-06 06-18	4500	700	3800 3800	248 368	3552			
IVIK.	30th June 2018	18-24	4500	700	3800	248	3432 3552			
		00-09	1710		1665	0	1665	-50	Revised due to change in load - generation pattern of NER & addition of Pare HEP (2*55 MW) along-	
	1st June 2018	09-17	1600	45	1555		1555	-160		
		17-23	1570		1525		1525	-210	with daytime shutdown of 400 kV Bongaigaon-Azara	
NER		23-24	1600		1555		1555	-160	S/C	
	2nd June 2018	00-17	1710		1665		1665	-50	Revised due to change in	
	to 30th June	17-23	1760	45	1715	0	1715	-20	load - generation pattern of NER and addition of Pare	
	2018	23-24	1710		1665		1665	-50	HEP (2*55 MW)	
WR										
SR *	1st June 2018 to 30th June 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 8
	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit.	Rev-0 to 3
I WK-NK	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev- 4 to 6
***************************************	(n-1) contingency of 765/400 kV Agra ICT leads to high loading on other ICT	Rev-6 to 8
	Restriction on Mundra Mahindragarh power flow due to high loading on 765/400 kV Vadodara ICTs	Rev-6 to 8
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
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 8
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
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-1 to 8
	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 8
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 8
W3 zone Injection		Rev-0 to 8

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 400 kV MPL- Maithon S/c	Rev-0 to 8
NR	Import	(n-1) Contingnecy of 765kV Gwalior-Agra one ckt leads to 2750 MW loading on second circuit. (n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 3 Rev-4 to 6
		(n-1) contingency of 765/400 kV Agra ICT leads to high loading on other ICT Restriction on Mundra Mahindragarh power flow due to high loading on 765/400 kV Vadodara ICTs	Rev-6 to 8 Rev-6 to 8
	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 8
NER	Import	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 8
	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 8
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
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-1 to 8

National Load Despatch Centre Total Transfer Capability for June 2018

Revision No	Date of Revision	Period of Revision	Reason for Revision	Corridor Affected
1	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).	ER-SR/WR- SR
2	27th Mar 2018	Whole month	Revised STOA margin due to 200 MW LTA from Bokaro TPS-A of DVC to PSPCL	ER- NR/Import of NR
3	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
4	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) due to restriction on power order of HVDC Mundra - Mahindragarh bipole due to low generation at APL Mundra	WR- NR/Import of NR
5	11th May 2018	Whole Month	Revised STOA margins due to operationalization of 174 MW LTA from Teesta-III HEP to UP discoms w.e.f. 12th May 2018	ER- NR/Import of NR
6	28th May 2018	Whole Month	Revised due to: (a) Forced outage of (i) 765 kV Agra-Gwalior-S/C (ii) 765 kV Agra Aligarh S/C. (iii) 765 kV Agra-Jhatikara S/C (b) Restriction on Mundra Mohindragarh power flow due to high loading on 765/400 kV Vadodara ICTs (c) Frequent outage of HVDC Champa Kurukshetra Pole (d) Change in STOA margin due to relinquishment of 52 MW MTOA	WR- NR/Import of NR
			Revised STOA margins due to change in LTA	ER- NR/Import of NR
			Revised STOA margins due to change in LTA	ER- SR/Import of SR
7	30th May 2018	01st June 18 to 09th June 18	Revised STOA margins due to change in LTA Revised due to Continuous shutdown of 400kV Ramagundam- Chandrapur-1 and 2	NR-WR WR- SR/Import of SR
0	31st May	01st June 18	Revised due to daytime shutdown of 400 kV Bongaigaon-Azara S/C	ER-NER/NER- ER/Import/E xport of NER
8 2018		Whole Month	Revised due to change in load - generation pattern of NER and addition of Pare HEP (2*55 MW)	ER-NER/NER- ER/Import/E xport of NER

ASSUM	MPTIONS IN BASECASE				
				Month : June'18	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
ı	NORTHERN REGION				
1	Punjab	9707	9255	5080	5139
2	Haryana	7845	7675	2070	2070
3	Rajasthan	10903	10986	6590	6590
4	Delhi	6209	6317	979	979
5	Uttar Pradesh	17071	16516	9906	9869
6	Uttarakhand	2141	1443	1086	970
7	Himachal Pradesh	1467	785	671	477
8	Jammu & Kashmir	2576	2095	927	919
9	Chandigarh	318	220	0	0
10	ISGS/IPPs	25	25	20852	18422
	Total NR	58263	55317	48161	45435
П	EASTERN REGION				
1	Bihar	4191	2611	310	220
2	Jharkhand	1141	864	364	280
3	Damodar Valley Corporation	2804	2491	5264	3725
4	Orissa	3987	3155	3015	2450
5	West Bengal	8786	5468	5340	3720
6	Sikkim	85	85	0	0
7	Bhutan	214	220	784	582
8	ISGS/IPPs	264	258	11528	9399
	Total ER	21472	15151	26605	20377
Ш	WESTERN REGION				
1	Maharashtra	15689	15068	10238	9681
2	Gujarat	13522	13370	8045	9316
3	Madhya Pradesh	7995	6892	2889	3127
4	Chattisgarh	3509	3177	2230	2230
5	Daman and Diu	237	300	0	0
6	Dadra and Nagar Haveli	674	764	0	0
7	Goa-WR	474	326	0	0
8	ISGS/IPPs	3553	3411	39400	34704
	Total WR	45653	43308	62801	59058

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	8636	8691	6402	3978
2	Telangana	7593	5803	3899	2983
3	Karnataka	9129	6068	6560	5033
4	Tamil Nadu	14945	13659	7857	7451
5	Kerala	3635	2109	1482	129
6	Pondy	376	374	0	0
7	Goa-SR	85	84	0	0
8	ISGS/IPPs	0	0	11925	10693
	Total SR	44398	36788	38125	30267
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	137	74	0	0
2	Assam	1278	1084	228	116
3	Manipur	171	87	0	0
4	Meghalaya	281	196	192	66
5	Mizoram	102	69	8	8
6	Nagaland	122	83	22	12
7	Tripura	242	149	78	78
8	ISGS/IPPs	141	100	1995	1773
	Total NER	2475	1844	2523	2053
	Total All India	172704	152805	179054	157811