National Load Despatch Centre Total Transfer Capability for November 2019

Issue Date: 21st November 2019 Issue Time: 1215 hrs Revision No. 5

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 November	00-06			2000	195	1805			
NR-WR*	2019 to 30th	06-18	2500	500		250	1750			
	November 2019	18-24				195	1805			
WR-NR*	1st November 2019 to 30th November 2019	00-24	14900 13950**	500	14400 13450**	10067 9117**	4333 4333**			
NR-ER*	1st November 2019 to 30th	00-06	2000 2000	200	1800	193	1607	-		
NK-EK*	November 2019	06-18 18-24	2000	200	1800 1800	303 193	1497 1607			
ER-NR*	1st November 2019 to 30th November 2019	00-24	5250	300	4950	4050	900			
W3-ER	1st November 2019 to 30th November 2019	00-24		No limit is being specified.						
ER-W3	1st November 2019 to 30th November 2019	00-24		No limit is being specified.						
	1.37	00-05	5550		5050		1162			
	1st November 2019 to 21st	05-22	5550	500	5050	3888	1162			
	November 2019	22-24	5550	200	5050		1162			
WR-SR		00-05	5050		4550		662	-500		
	22nd November 2019 to 30th	05-22	5050	500	4550	3888	662	-500	Revised due to forced outage and frequent tripping of HVDC Block-1	
	November 2019	22-24	5050		4550		662	-500	at Bhadravathi	
SR-WR*	1st November 2019 to 30th November 2019	00-24	No limit is being Specified.							
	1st November	00-06				2748	1952			
ER-SR	1st November 2019 to 30th November 2019	06-18	4950	250	4700	2833	1867			
		18-24				2748	1952			
SR-ER *	1st November 2019 to 30th November 2019	00-24		No limit is being Specified.						

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	1st November	00-17	1370		1325		991		
ER-NER	2019 to 30th	17-23	1030	45	985	334	651		
	November 2019	23-24	1370		1325		991		
	1st November	00-17	2400		2355	0	2355		
	2019 to 9th	17-23	2450	45	2405		2405		
	November 2019	23-24	2400		2355		2355		
		00-08	2400		2355	0	2355		
NER-ER	10th November	08-17	1840	45	1795		1795		
NEK-EK	2019	17-23	1750	43	1705	U	1705		
		23-24	1840		1795		1795		
	11th November 2019 to 30th	00-17	2400		2355		2355		
		17-23	2450	45	2405	0	2405		
	November 2019	23-24	2400		2355		2355		

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W3 zone Injection	1st November 2019 to 30th November 2019		No limit is be	No 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

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									
		00-06	20400		19600		5483		
			19450**		18650**		5483**		
		06.00	21900		21100		6983		
NR	1st November 2019 to 30th	06-09	20950**	800	20150**	14117	6983**		
1,11	November 2019	20400	20400		19600	13167**	5483		
		09-17	19450**		18650**		5483**		
		17-24	19850		19050		4933		
			18900**		18100**		4933**		
	1.07	00-17	1370		1325		991		
NER	1st November 2019 to 30th November 2019	17-23	1030	45	985	334	651		
	110000000000000000000000000000000000000	23-24	1370		1325		991		
WR									•
	1st November	00-06	10500		9750	6636	3114		
	2019 to 21st November 2019	06-18	10500	750	9750	6721	3029		
CD.		18-24	10500		9750	6636	3114		
SR	22nd November	00-06	10000		9250	6636	2614	-500	Revised due to forced outage and
	2019 to 30th	06-18	10000	750	9250	6721	2529	-500	frequent tripping of HVDC
	November 2019	18-24	10000		9250	6636	2614	-500	Block-1 at Bhadravathi

^{*} 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 November	00-06	4500		3800	388	3412		
NR*	2019 to 30th	06-18	4300	700	3800	553	3247		
	November 2019	18-24	4500		3800	388	3412		
	1st November	00-17	2400		2355		2355		
	2019 to 9th	17-23	2450	45	2405	0	2405		
	November 2019	23-24	2400		2355		2355		
	10th November	00-08	2400	- 45	2355	0	2355		
NER		08-17	1840		1795		1795		
NEK	2019	17-23	1750		1705		1705		
		23-24	1840		1795		1795		
	11th November	00-17	2400		2355		2355		
	2019 to 30th	17-23	2450	45	2405	0	2405		
	November 2019	23-24	2400		2355		2355		
WR									
SR *	1st November 2019 to 30th November 2019	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 Bhanpura-Modak	Rev-0 to 5
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 5
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
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 5
WR-SR	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 5
and ER-	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
SK	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
ER-NER	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa will lead to high loading of 220 kV Balipara-Sonabil line (200 MW)	Rev-0 to 2
211121	a. N-1 contingency of 400 kV Bongaigaon- Azara line will lead to high Loading of 220 kV Salakati-BTPS D/C(200 MW)	Rev- 3 to 5
	(n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 2
NER-ER	N-1 contingency of 400 kV Silchar-Azara line will lead to high Loading of 400 kV Killing-Bongaigaon line.	Rev-3
	N-1 contingency of 400 kV Bongaigaon- Alipurduar circuit I will lead to high Loading of 220 kV Salakati-Alipurduar D/C	Rev-4-5
W3 zone Injection		Rev-0 to 5

Limiting Constraints (Simultaneous)

			Applicable Revisions
	Import	 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 5
NR		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 5
NR NER	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 5
	Export	(n-1) contingency of 400 kV Saranath-Pusauli	Rev 0 to 5
	Import	a. (n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa will lead to high loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 2
NED	Import	a. N-1 contingency of 400 kV Bongaigaon- Azara line will lead to high Loading of 220 kV Salakati-BTPS D/C(200 MW)	Rev- 3 to 5
NEK		(n-1) contingency of 400/220 kV, 2x500 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 2
	Export	N-1 contingency of 400 kV Silchar-Azara line will lead to high Loading of 400 kV Killing-Bongaigaon line.	Rev-3
	Export	N-1 contingency of 400 kV Bongaigaon- Alipurduar circuit I will lead to high Loading of 220 kV Salakati-Alipurduar D/C	Rev-4-5
		n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 5
SR	Import	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th August 2019	Whole Month	Revised STOA margin due to the following:- a) Revision in LTA quantum from RPL-SECI-II to Punjab- from 47.2 MW to 50.4 MW b) Revision in LTA quantum from RPL-SECI-II to UPPCL- from 47.2 MW to 50.4 MW	WR-NR / NR Import
			Revised STOA margin due to operationalization of 65 MW LTA from NPGC to UP	ER-NR/ NR Import
			Revised STOA margin due to completion of 14 MW MTOA from NSPCL to SAIL (Salem), TN	WR-SR/Import of SR
2	13th September 2019	Whole Month	Revised considering Load Geneartion balance and HVDC set points as per present system conditions	WR-NR/Import of NR
3	29th October 2019	Whole Month	Revised TTC due to following: (i) Long outage of Kopili and Khandong generation because of bursting of Penstock at Kopili (ii)Long Outage of Palatana Module-1 due to rotor earth fault. (iii)Non availability of 220 kV Misa-Kopili and 132 kV Khandong- Kopili link.	NER-ER//Export of NER
			(a) Revised TTC due to change in LGBR and (b) revised STOA margin due to 4.2 MW LTA and 19.76 MW MTOA to Assam from GIWEL	ER-NER/Import of NER
4	8th November 2019	10th November	TTC/ATC revised due to shutdown of 400 kV Bongaigaon - New Siliguri D/C for stringing works of under construction 400kV second Alipurduar-Binaguri line	NER-ER//Export of NER
5	21st November 2019	22nd November to 30th November 2019	Revised due to forced outage and frequent tripping of HVDC Block-1 at Bhadravathi	WR-SR/Import of SR

ASSUM	MPTIONS IN BASECASE				
				Month : November'19	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (M	IW) Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	7875	5192	4226	4000
2	Haryana	7646	4763	1734	1734
3	Rajasthan	11378	11032	7073	7012
4	Delhi	4481	2498	799	799
5	Uttar Pradesh	13818	13077	6140	6161
6	Uttarakhand	2129	1572	912	600
7	Himachal Pradesh	1772	1243	323	235
8	Jammu & Kashmir	2302	1938	568	507
9	Chandigarh	243	131	0	0
10	ISGS/IPPs	27	26	19237	10332
	Total NR	51671	41473	41011	31379
Ш	EASTERN REGION				
1	Bihar	4871	3078	168	161
2	Jharkhand	1221	892	369	319
3	Damodar Valley Corporation	2784	2680	4652	3775
4	Orissa	4122	2714	2847	2178
5	West Bengal	7585	5552	5024	3823
6	Sikkim	240	280	0	0
7	Bhutan	185	177	336	281
8	ISGS/IPPs	639	646	12884	9296
	Total ER	21648	16020	26279	19832
III	WESTERN REGION				
1	Maharashtra	20019	13925	14607	10403
2	Gujarat	15146	11884	9281	9100
3	Madhya Pradesh	12770	9774	5641	4518
4	Chattisgarh	4311	2747	2682	2466
5	Daman and Diu	337	236	0	0
6	Dadra and Nagar Haveli	824	565	0	0
7	Goa-WR	584	363	0	0
8	ISGS/IPPs	5450	4364	44276	34265
- 3	Total WR	59439	43858	76486	60753

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	10285	7851	6911	5245
2	Telangana	11764	10518	4899	4549
3	Karnataka	9649	5970	7902	4265
4	Tamil Nadu	14497	12094	6397	5697
5	Kerala	3819	2181	1475	213
6	Pondy	338	310	0	0
7	Goa-SR	66	61	0	0
8	ISGS/IPPs	0	0	18497	12129
	Total SR	50420	38984	46081	32098
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	123	66	0	0
2	Assam	1792	1127	204	176
3	Manipur	197	91	0	0
4	Meghalaya	317	241	144	82
5	Mizoram	99	65	38	33
6	Nagaland	117	74	16	6
7	Tripura	278	164	99	99
8	ISGS/IPPs	104	61	2388	1867
	Total NER	3026	1889	2889	2263
	Total All India	186204	142224	192746	146325