National Load Despatch Centre Total Transfer Capability for October 2019

Issue Date: 30th September 2019

Issue Time: 1200 hrs

Revision No. 4

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 October	00-06				195	1805		
NR-WR*	2019 to 31st October 2019	06-18	2500	500	2000	250	1750		
		18-24				195	1805		
WR-NR*	1st October 2019 to 31st October 2019	00-24	14900 13950**	500	14400 13450**	10067 9117**	4333 4333**		
	1st October	00-06	2000		1800	193	1607		
NR-ER*	2019 to 31st	06-18	2000	200	1800	303	1497		
	October 2019	18-24	2000		1800	193	1607		
ER-NR*	1st October 2019 to 31st October 2019	00-24	5250	300	4950	4050	900		
	1st October								
W3-ER	2019 to 31st October 2019	00-24				No limit i	is being specified.		
ER-W3	1st October 2019 to 31st October 2019	00-24				No limit i	is being specified.		
		00.05	5550		5050		11/2		
	1st October	00-05	5550		5050		1162		
WR-SR	2019 to 31st October 2019	05-22	5550	500	5050	3888	1162		
		22-24	5550		5050		1162		
SR-WR *	1st October 2019 to 31st October 2019	00-24		No limit is being Specified.					
	1.0.1	00-06				2748	1952		
ER-SR	1st October 2019 to 31st	06-18	4950	250	4700	2833	1867		
EX-5X	October 2019				+700				
	0000001 2017	18-24	2748 1952 No limit is being Specified.						

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		00-08	1200		1155		845	40	Revision in TTC/ATC due to the following:-
ER-NER	1st October	08-17	980	45	935	310	625	-180	a) Shutdown of 400 kV Bongaigaon -
EK-NEK	2019	17-23	830	45	785	510	475	-90	Byrnihat TL
		23-24	980		935		625	-180	b) Change in load - generation balance in NER
	2nd October	00-17	1200		1155		845	40	
ER-NER	2019 to 31st October 2019	17-23	1080	45	1035	310	725	160	Revision in TTC/ATC due to change in load - generation balance in NER
		23-24	1200		1155		845	40	
	1st October	00-08	2900	- 45	2855	- 0	2855	-90	Revision in TTC/ATC due to the following:-
NED ED		08-17	2250		2205		2205	-740	a) Shutdown of 400 kV Bongaigaon -
NER-ER		17-23	2300		2255		2255	-750	Byrnihat TL
		23-24	2250		2205		2205	-740	b) Change in load - generation balance in NER
	2nd October	00-17	2900		2855		2855	-90	
NER-ER	2019 to 31st	17-23	2870	45	2825	0	2825	-180	Revision in TTC/ATC due to change in load - generation balance in NER
	October 2019	23-24	2900		2855		2855	-90	
W3 zone Injection 1st October 2019 to 31st October 2019 00-24 No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)									
Regional Sec	tion in Monthly	ATC.			-	· -			NLDC website under Intra-
* Fifty Percer First Come Fi		r flow bene	efit on accoun	t of LTA/MT	OA transaction	s in the reverse dire	ection would be con	nsidered for	advanced transactions (Bilateral &
**Considerin	,	U	•		U	1 1	e of scheduling, m	etering and a	accounting and 950 MW ex-bus

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

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 19450**		19600 18650**		5483 5483**		
			21900		21100		6983		
ND	1st October	06-09	20950**	200	20150**	14117	6983**		
NR	2019 to 31st October 2019		20400	800	19600	13167**	5483		*
		09-17	19450**		18650**		5483**		
			19850		19050		4933		*
		17-24	18900**		18100**		4933**		
		00-08	1200		1155	310	845	40	Revision in TTC/ATC due to the following:-
	1st October	08-17	980	45	935		625	-180	a) Shutdown of 400 kV
	2019	17-23	830	45	785		475	-90	Bongaigaon - Byrnihat TL
NER		23-24	980		935		625	-180	b) Change in load - generation balance in NER
	2nd October	00-17	1200		1155		845	40	Revision in TTC/ATC due to
	2019 to 31st	17-23	1080	45	1035	310	725	160	change in load - generation
	October 2019	23-24	1200		1155		845	40	balance in NER
WR									
	1st October	00-06	10500		9750	6636	3114		
SR	2019 to 31st October 2019	06-18	10500	750	9750	6721	3029		
	October 2019	18-24	10500		9750	6636	3114		

* 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.

* 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
	1st October	00-06	4500		3800	388	3412		
NR*	2019 to 31st	06-18	4300	700	3800	553	3247		
	October 2019	18-24	4500		3800	388	3412		
		00-08	2900		2855	0	2855	-90	Revision in TTC/ATC due to the following:-
	1st October 2019	08-17	2250	- 45	2205		2205	-740	a) Shutdown of 400 kV
NER		17-23	2300		2255		2255	-750	Bongaigaon - Byrnihat TL
INER		23-24	2250		2205		2205	-740	b) Change in load - generation balance in NER
	2nd October	00-17	2900		2855		2855	-90	Revision in TTC/ATC due
	2019 to 31st	17-23	2870	45	2825	0	2825	-180	to change in load -
	October 2019	23-24	2900		2855		2855	-90	generation balance in NER
WR									
SR *	1st October 2019 to 31st October 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 4
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 4
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 4
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 4
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 4
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 4
SR	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 4
	a. N-1 contingency of 400 kV Bongaigaon-Azara lineb. High loading of 220 kV Balipara-Sonabil line (200 MW)	Rev-0 to 3
	a) N-1 contingency of 400 kV Bongaigaon- Azara line b) High Loading of 220 kV Salakati-BTPS D/C (200 MW)	Rev-4
	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 3
	a) N-1 contingency of 400 kV Silchar-Azara line b) High Loading of 400 kV Killing-Bongaigaon line	Rev-4
W3 zone Injection		Rev-0 to 4

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 4
NR		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev-0 to 4
	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 4
	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 3
NER		a) N-1 contingency of 400 kV Bongaigaon- Azara lineb) High Loading of 220 kV Salakati-BTPS D/C (200 MW)	Rev-04
		(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 3
	Export	a) N-1 contingency of 400 kV Silchar-Azara lineb) High Loading of 400 kV Killing-Bongaigaon line	Rev-04
		n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 4
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 4
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 4

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
			A) Revision in TTC/ATC due to commissioning of 765 kV Banaskantha – Chittorgarh – Ajmer – Bikaner corridor.	
1	28th July 2019	Whole Month	 B) Revised STOA margin due to the following:- a) Revision in LTA quantum from RPL-SECI-II to Punjab- from 41.6 MW to 47.2 MW b) Revision in LTA quantum from RPL-SECI-II to UPPCL- from 41.6 MW to 47.2 MW c) Revision in LTA quantum from MAHINDRA RUMS to DMRC- from 7.75 MW to 7.8 MW d) Operationalization of 49 MW MTOA from GIWEL-SECI-III to Punjab e) Revision in LTA quantum from KSK Mahanadi to UPPCL from 820 MW to 1000 MW 	
			Revision in LTA quantum from KSK Mahanadi to TN from 440 MW to 500 MW	WR-SR/Import of SR
2	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 Revised STOA margin due to completion of 14 MW MTOA from NSPCL to SAIL (Salem), TN	ER-NR/ NR Import WR-SR/Import of SR
3	13th September 2019	Whole Month	Revised considering Load Geneartion balance and HVDC set points as per present system conditions	WR-NR/Import of NR
4	30th September 2019	01st Oct'19	a) Shutdown of 400 kV Bongaigaon - Byrnihat TL b) Change in load - generation balance in NER	ER-NER/NER-ER corridor &
		02nd Oct'19 to 31st Oct'19	Change in load - generation balance in NER	Import/Export of NER

National Load Despatch Centre Total Transfer Capability for October 2019

ASSUN	IPTIONS IN BASECASE				
				Month : October'19	
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	7855	6512	3513	3307
2	Haryana	7223	6505	1734	1734
3	Rajasthan	10860	10903	6767	6764
4	Delhi	5246	3634	799	799
5	Uttar Pradesh	13788	11698	6713	7060
6	Uttarakhand	1941	1383	951	849
7	Himachal Pradesh	1623	1209	497	356
8	Jammu & Kashmir	2051	1501	590	629
9	Chandigarh	305	165	0	0
10	ISGS/IPPs	28	28	17584	10365
	Total NR	50920	43537	39148	31863
II	EASTERN REGION				
1	Bihar	4979	3175	168	168
2	Jharkhand	1377	905	409	324
3	Damodar Valley Corporation	2844	2689	5347	3710
4	Orissa	4413	3112	3516	2141
5	West Bengal	8518	6236	5614	4638
6	Sikkim	103	87	0	0
7	Bhutan	190	189	676	766
8	ISGS/IPPs	635	635	12570	9765
	Total ER	23058	17028	28299	21512
	WESTERN REGION				
1	Maharashtra	20683	16735	14361	11577
2	Gujarat	16854	14057	11442	8683
3	Madhya Pradesh	10995	8125	5719	3379
4	Chattisgarh	4318	4068	2149	2165
5	Daman and Diu	342	302	0	0
6	Dadra and Nagar Haveli	826	748	0	0
7	Goa-WR	524	334	0	0
8	ISGS/IPPs	4616	4046	42570	39201
	Total WR	59159	48415	76240	65006

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	10055	7955	6301	5245
2	Telangana	10628	10934	5764	4825
3	Karnataka	9008	4723	7412	4462
4	Tamil Nadu	14709	12420	7497	5898
5	Kerala	3339	2238	1527	354
6	Pondy	346	331	0	0
7	Goa-SR	68	65	0	0
8	ISGS/IPPs	0	0	15553	12129
	Total SR	48151	38664	44055	32913
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	140	65	0	0
2	Assam	1785	1314	255	192
3	Manipur	192	93	0	0
4	Meghalaya	279	206	259	212
5	Mizoram	99	67	44	43
6	Nagaland	123	77	22	12
7	Tripura	304	191	97	95
8	ISGS/IPPs	113	71	2475	2139
	Total NER	3036	2085	3152	2693
	Total All India	184324	149729	190893	153986