National Load Despatch Centre Total Transfer Capability for February 2019

Issue Date: 1st February 2019

Issue Time: 1130 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		
-	1.4 D. I.	00-06				195	1805				
NR-WR*	1st FebruaryR-WR*2019 to 28thFebruary 2019	06-18	2500	500	2000	250	1750				
		18-24				195	1805				
	1st February		13250		12750	9383	3367				
WR-NR*	2019 to 28th February 2019	00-24	12300**	500	11800**	8433**	3367**				
	1st February	00-06	2000		1800	193	1607				
NR-ER*	2019 to 28th	06-18	2000	200	1800	303	1497				
	February 2019	18-24	2000		1800	193	1607				
ER-NR*	1st February 2019 to 28th February 2019	00-24	5250	300	4950	3892	1058				
W3-ER	1st February 2019 to 28th February 2019	00-24		No limit is being specified.							
ER-W3	1st February 2019 to 28th February 2019	00-24		No limit is being specified.							
	1st February 2019 to 28th February 2019	00-05	5550		5050		615				
WR-SR		05-22	5550	500	5050	4435	615				
WR-SR		22-24	5550	500	5050	4455	615				
SR-WR *	1st February 2019 to 28th February 2019	00-24	5550		5050	No limit i	s being Specified.				
		00-06				2762	938				
	1st February	st February 06.18 394	3950	250	3700	2847	853	-			
	2019	18-24				2762	938				
		00-05	3950		3700	2762	938				
	02nd February	05-06				2762	0				
	2019		250	2700	2847	0					
		18-24				2762	0				
	3rd February	00-06				2762	0				
ER-SR	2019 to 04th	06-18	2950	250	2700	2847	0				
	February 2019	18-24				2762	0				
	05th February	00-06				2762	938				
	2019 to 06th	06-18	3950	250	3700	2847	853				
	February 2019	18-24				2762	938				
	07th Eshressen	00-06				2762	1938				
	07th February 2019 to 28th	06-18	4950	250	4700	2847	1853				
	February 2019	18-24				2762	1938	-			
SR-ER *	1st February 2019 to 28th February 2019	00-24		I	I		s being Specified.				

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	1.51	00-17	1280		1235		1010			
	1st February 2019	17-23	1450	45	1405	225	1180			
	2017	23-24	1280		1235		1010			
		00-08	1280		1235		1010		Revised TTC due to day time Shutdown of 400 kV Bongaigaon -	
ER-NER	2nd February	08-17	1070	45	1025	225	800	-210	Azara line for testing, commissioning and jumper	
ER-NER	2019	17-23	1160		1115	223	890	-290	connection of new reactor at Bongaigaon Substation.	
		23-24	1070		1025		800	-210		
	3rd February	00-17	1280		1235	225	1010			
	2019 to 28th	17-23	1450	45	1405		1180			
	February 2019	23-24	1280		1235		1010			
	1st February 2019	00-17	1900	45	1855	0	1855			
		17-23	1830		1785		1785			
		23-24	1900		1855		1855			
	2nd February 2019	00-08	1900	- 45	1855	5 0	1855		Revised TTC due to day time Shutdown of 400 kV Bongaigaon -	
NER-ER		08-17	1490		1445		1445	-410	Azara line for testing, commissioning and jumper connection of new reactor at Bongaigaon Substation.	
ILK-EK		17-23	1460		1415		1415	-370		
		23-24	1490		1445		1445	-410	Bongangaon Substation.	
	3rd February	00-17	1900		1855		1855			
	2019 to 28th	17-23	1830	45	1785	0	1785			
	February 2019	23-24	1900		1855		1855			
W3 zone Injection	2019 to 28th 1 00-24 INO limit is being specified (in case of any constraints appearing in the system, W3 zone export would be revised accordingly)									
Regional Se	ction in Monthly nt (50 %) Counte	ATC.	· -		-	-		-	A NLDC website under Intra-	
	ng 400 kV Rihand Rihand stage-III.						se of scheduling, m	etering and	accounting and 950 MW ex-bus	

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									
		00-06	17650		16850		3575		
			16700**		15900**		3575**		
NR	1st February 2019 to 28th	06-17	18900	800	18100	13275	4825		
	February 2019	17.24	17950** 17000		17150** 16200	12325**	4825** 2925		
		17-24	16050**		15250**		2925**		
	1st February	00-17	1280		1235		1010		
	2019	17-23 23-24	1450 1280	45	1405 1235	225	1180 1010		
		00-08	1280		1235		1010		Revised TTC due to day time Shutdown of 400 kV
NER	2nd February 2019	08-17	1070	45	1025	225	800	-210	Bongaigaon - Azara line for testing, commissioning and
NEK		17-23	1160		1115		890	-290	jumper connection of new reactor at Bongaigaon
		23-24	1070		1025		800	-210	Substation.
	3rd February	00-17	1280	45	1235	225	1010		
	2019 to 28th February 2019	17-23 23-24	1450 1280	45	1405 1235	225	1180 1010		
WR									
		00-06	9500		8750	7197	1553		
	1st February			750				-	
	2019	06-18	9500	750	8750	7282	1468	-	
		18-24	9500		8750	7197	1553		
		00-05	9500	ł	8750	7197	1553		
	02nd February	05-06	8500	750	7750	7197	553		
	2019	06-18	8500	ļ	7750	7282	468		
SR		18-24	8500		7750	7197	553		
	03rd February	00-06	8500		7750	7197	553		
	2019 to 04th	06-18	8500	750	7750	7282	468]	
	February 2019	18-24	8500		7750	7197	553		
	05th February	00-06	9500		8750	7197	1553		
	2019 to 06th	06-18	9500	750	8750	7282	1468		
	February 2019	18-24	9500		8750	7197	1553		

	07th February	00-06	10500		9750	7197	2553	
SR	2019 to 28th	06-18	10500	750	9750	7282	2468	
	February 2019	18-24	10500		9750	7197	2553	

* 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

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 February	00-06	4500		3800	388	3412		
NR*	2019 to 28th	06-18		700	3800	553	3247		
	February 2019	18-24	4500		3800	388	3412		
	1st February	00-17	1900		1855		1855		
	2019	17-23	1830	45	1785	0	1785		
		23-24	1900		1855		1855		
	2nd February 2019	00-08	1900	- 45	1855	- 0	1855		Revised TTC due to day time Shutdown of 400 kV
NER		08-17	1490		1445		1445	-410	Bongaigaon - Azara line for testing, commissioning and
NEK		17-23	1460		1415		1415	-370	jumper connection of new reactor at Bongaigaon
		23-24	1490		1445		1445	-410	Substation.
	3rd February	00-17	1900		1855		1855		
	2019 to 28th	17-23	1830	45	1785	0	1785		
	February 2019	23-24	1900		1855		1855		
WR									
W K									
SR *	1st February 2019 to 28th February 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
	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 2
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-3 to 5
WR-NR	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0 to 1
	RVO operation of HVDC Champa Kurukshetra Poles	Rev-2
	Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev - 2
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
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 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-1 to 5
SR	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5
	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa	Rev-0 to 4
ER-NER	b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 5
	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0 to 5
W3 zone Injection		Rev-0 to 5

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 5
	Import	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida. n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-0 to 2 Rev - 3 to 5
NR	L · · ·	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0 to 1
		RVO operation of HVDC Champa Kurukshetra Poles	Rev-2
		Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-2
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 5
		a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa	Rev-0 to 4
NER	Import	b. High loading of 220 kV Balipara-Sonabil line (200 MW)	Rev-0 to 5
	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 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-1 to 5
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5

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Revision	Date of	Period of	Reason for Revision/Comment	Corridor
No	Revision	Revision		Affected
1	26th Nov 2018	Whole Month	Revised considering (a) recent commissioning of 765 kV Jharsuguda - Dharamjaygarh 3&4, 765 kV Gadarwara - Warora PS D/C, 765 kV Warora PS - Parli D/C, LILO of Kurnool - Thirvualam D/C at Cuddapah, 400 kV Cuddapah- Hindupur D/C, Salem PS - Madhugiri PS S/C, 765 kV Dharamjaigarh - Champa S/C, 765 kV Champa-Raigarh S/C and 765 kV Sipat-Bilaspur ckt-3 and some other 400 kV lines	WR-SR/ER- SR/Import of SR
			Varora PS D/C, 765 kV Warora PS - Parli D/C, LILO of urnool - Thirvualam D/C at Cuddapah, 400 kV Cuddapah- lindupur D/C, Salem PS - Madhugiri PS S/C, 765 kV wharamjaigarh - Champa S/C, 765 kV Champa-Raigarh S/C nd 765 kV Sipat-Bilaspur ckt-3 and some other 400 kV nes revised STOA margin due to operatiionalization of dditional 20 MW LTA from OKWPL to UP discom revised STOA margins due to:) Additional 20 MW LTA to Delhi from Ostro Kutch Wind ower Ltd (OKWPL) i) Operationalization of 108 MW ATOA from SKS Power Gen Ltd to Noida Power Company revised TTC due to:) Change in load generation balance i) Commissioning of circuit 3 & 4 of 765 kV Angul harsuguda ii) Prevailing pattern of load in downstream of 400/220 kV Arardam ICTs revised TTC due to normalization of Champa Kurukshetra ipole hange in pattern of inter-regional flow towards NR revised STOA margin due to termination of 100 MW ATOA from LANCO Anpara power limited to TANGEDCO revised TTC Due to recent changes in network of NER Upgradation of 132 kV Silchar - Imphal D/C to 400 kV evel, commissioning of 132 kV Silchar - Melriat D/C, 2*315 AVA, 400/132 kV ICTs at Imphal(PG)) and changes in load generation balance in NER revised TTC due to Talcher - kolar single/Bi-pole Shutdown on arious dates.	WR- NR/Import of NR
			Revised STOA margins due to: (i) Additional 20 MW LTA to Delhi from Ostro Kutch Wind Power Ltd (OKWPL) (ii) Operationalization of 108 MW MTOA from SKS Power Gen Ltd to Noida Power Company	WR- NR/Import of NR
2	4th Jan 2019	Whole Month	rsuguda - Dharamjaygarh 3&4, 765 kV Gadarwara - hrora PS D/C, 765 kV Warora PS - Parli D/C, LILO of rnool - Thirvualam D/C at Cuddapah, 400 kV Cuddapah- ndupur D/C, Salem PS - Madhugiri PS S/C, 765 kV aramjaigarh - Champa S/C, 765 kV Champa-Raigarh S/C d 765 kV Sipat-Bilaspur ckt-3 and some other 400 kV es vised STOA margin due to operatiionalization of ditional 20 MW LTA from OKWPL to UP discom vised STOA margins due to: Additional 20 MW LTA to Delhi from Ostro Kutch Wind wer Ltd (OKWPL) Operationalization of 108 MW 'OA from SKS Power Gen Ltd to Noida Power Company vised TTC due to: Change in load generation balance Commissioning of circuit 3 & 4 of 765 kV Angul rsuguda Prevailing pattern of load in downstream of 400/220 kV radam ICTs vised TTC due to normalization of Champa Kurukshetra tole ange in pattern of inter-regional flow towards NR vised STOA margin due to termination of 100 MW 'OA from LANCO Anpara power limited to TANGEDCO vised TTC Due to recent changes in network of NER ogradation of 132 kV Silchar - Imphal D/C to 400 kV rel, commissioning of 132 kV Silchar - Melriat D/C ,2*315 /A, 400/132 kV ICTs at Imphal(PG)) and changes in load neration balance in NER vised TTC due to Talcher - kolar single/Bi-pole Shutdown on ious dates.	ER-SR/WR- SR/Import of SR
			Revised TTC due to normalization of Champa Kurukshetra bipole	WR- NR/Import of NR
3	28th Jan 2019	Whole Month	Change in pattern of inter-regional flow towards NR	Import of NR
			Revised STOA margin due to termination of 100 MW MTOA from LANCO Anpara power limited to TANGEDCO	WR- SR/Import of SR
4	29th Jan 2019	Whole Month	Revised TTC Due to recent changes in network of NER (Upgradation of 132 kV Silchar - Imphal D/C to 400 kV Level, commissioning of 132 kV Silchar- Melriat D/C ,2*315 MVA, 400/132 kV ICTs at Imphal(PG)) and changes in load -generation balance in NER	ER-NER/NER- ER/Import /Export of NER
		01st Feb 2019 to 06th Feb 19	Revised due to Talcher - kolar single/Bi-pole Shutdown on various dates.	ER-SR/ Import of SR
5	1st Feb 2019	2nd Feb 2019	Revised TTC due to day time Shutdown of 400 kV Bongaigaon - Azara line for testing, commissioning and jumper connection of new reactor at Bongaigaon Substation.	ER-NER/NER- ER/Import /Export of NER

National Load Despatch Centre Total Transfer Capability for February 2019

ASSUN	IPTIONS IN BASECASE				
				Month : February'19	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MV	V) Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	7631	5772	3251	3146
2	Haryana	7632	5724	2416	2391
3	Rajasthan	10162	9776	5870	5810
4	Delhi	4284	2411	541	535
5	Uttar Pradesh	13764	12749	6360	6225
6	Uttarakhand	1805	1059	722	371
7	Himachal Pradesh	1447	430	204	27
8	Jammu & Kashmir	2034	1268	292	235
9	Chandigarh	241	122	0	0
10	ISGS/IPPs	30	30	18516	9378
	Total NR	49030	39342	38172	28120
	EASTERN REGION				
1	Bihar	3735	2405	351	207
2	Jharkhand	970	758	360	223
3	Damodar Valley Corporation	2950	2695	5233	4381
4	Orissa	3969	3029	2364	1707
5	West Bengal	6784	4742	5378	4065
6	Sikkim	104	102	0	0
7	Bhutan	207	199	643	643
8	ISGS/IPPs	1120	1112	12272	9164
	Total ER	19839	15041	26600	20390
	WESTERN REGION				
1	Maharashtra	17960	12988	12516	9289
2	Gujarat	13475	11417	8764	7972
3	Madhya Pradesh	10868	6191	5106	4336
4	Chattisgarh	3606	2644	2248	1867
5	Daman and Diu	324	287	0	0
6	Dadra and Nagar Haveli	793	707	0	0
7	Goa-WR	522	327	0	0
8	ISGS/IPPs	4337	3466	37969	26997
	Total WR	51885	38026	66603	50461

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	8132	7088	6103	4712
2	Telangana	9743	8088	4823	4423
3	Karnataka	10431	7051	7633	5219
4	Tamil Nadu	14513	10993	6958	5513
5	Kerala	3871	2460	1678	402
6	Pondy	329	347	0	0
7	Goa-SR	74	78	0	0
8	ISGS/IPPs	0	0	14302	12230
	Total SR	47093	36106	41497	32500
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	133	76	0	0
2	Assam	1233	1073	185	142
3	Manipur	162	100	0	0
4	Meghalaya	301	215	197	96
5	Mizoram	90	67	8	8
6	Nagaland	115	74	12	12
7	Tripura	198	193	72	74
8	ISGS/IPPs	116	116	1902	1449
	Total NER	2348	1913	2376	1781
	Total All India	170195	130428	175247	133253