National Load Despatch Centre
Total Transfer Capability for March 2019

Issue Date: 07th Mar 2019 Issue Time: 1300 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
NR-WR*	1st March 2019 to 31st March 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st March 2019 to 7th March 2019	00-24	13250 12300**	500	12750 11800**	9383 8433**	3367 3367**		
	8th March 2019 to 31st March 2019	00-24	13250 12300**	500	12750 11800**	9433 8483**	3317 3317**		Revised STOA margin due to operationalization of 50 MW LTA from Orange Sirong Wind Power Limited (OSWPPL) to Haryana.
NR-ER*	1st March 2019 to 31st March 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st March 2019 to 7th March 2019	00-24	5250	300	4950	3892	1058		
	8th March 2019 to 31st March 2019	00-24	5250	300	4950	3979	971		Revised STOA margin due to operationalization of 87 MW LTA from Teesta - III HEP to Rajasthan.
W3-ER	1st March 2019 to 31st March 2019	00-24	No limit is being specified.						
ER-W3	1st March 2019 to 31st March 2019	00-24	No limit is being specified.						
WR-SR	1st March 2019 to 31st March 2019	00-05	5550	500	5050	4435	615		
		05-22	5550		5050		615		
		22-24	5550		5050		615		
SR-WR *	1st March 2019 to 31st March 2019	00-24	No limit is being Specified.						
ER-SR	1st March 2019 to 31st March 2019	00-06	4950	250	4700	2762	1938		
		06-18				2847	1853		
		18-24				2762	1938		
SR-ER *	1st March 2019 to 31st March 2019	00-24	No limit is being Specified.						

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ER-NER	1st March 2019 to 09th March 2019	00-17	900	45	855	225	630		
		17-23	1090		1045		820		
		23-24	900		855		630		
	10th March 2019 to 31st March 2019	00-17	1380	45	1335	225	1110		
		17-23	1340		1295		1070		
		23-24	1380		1335		1110		
NER-ER	1st March 2019 to 09th March 2019	00-17	2010	45	1965	0	1965		
		17-23	2070		2025		2025		
		23-24	2010		1965		1965		
	10th March 2019 to 31st March 2019	00-17	2270	45	2225	0	2225		
		17-23	2380		2335		2335		
		23-24	2270		2225		2225		
W3 zone Injection	1st March 2019 to 31st March 2019	00-24	No limit is being specified (In case ofany 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.

* 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 willl 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									
NR	1st March 2019 to 07th March 2019	00-06	17650 16700**	800	16850 15900**	13275 12325**	3575 3575**		
		06-17	18900 17950**		18100 17150**		4825 4825**		
		17-18	17000 16050**		16200 15250**		2925 2925**		
		18-23	17000 16050**		16200 15250**		2925 2925**		
		23-24	17000 16050**		16200 15250**		2925 2925**		
	8th March 2019 to 31st March 2019	00-06	17650 16700**	800	16850 15900**	13412 12462**	3438 3438**		Revised STOA margin due to operationalization of the following:- a) 50 MW LTA from Orange Sirong Wind Power Limited (OSWPPL) to Haryana. b) 87 MW LTA from Teesta - III HEP to Rajasthan.
		06-17	18900 17950**		18100 17150**		4688 4688**		
		17-18	17000 16050**		16200 15250**		2788 2788**		
		18-23	17000 16050**		16200 15250**		2788 2788**		
		23-24	17000 16050**		16200 15250**		2788 2788**		
NER	1st March 2019 to 09th March 2019	00-17	900	45	855	225	630		
		17-23	1090		1045		820		
		23-24	900		855		630		
	10th March 2019 to 31st March 2019	00-17	1380	45	1335	225	1110		
		17-23	1340		1295		1070		
		23-24	1380		1335		1110		
WR									
SR	1st March 2019 to 31st March 2019	00-06	10500	750	9750	7197	2553		
		06-18	10500		9750	7282	2468		
		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 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 March 2019 to 31st March 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st March 2019 to 9th March 2019	00-17	2010	45	1965	0	1965		
		17-23	2070		2025		2025		
		23-24	2010		1965		1965		
	10th March 2019 to 31st March 2019	00-17	2270	45	2225	0	2225		
		17-23	2380		2335		2335		
		23-24	2270		2225		2225		
WR									
SR *	1st March 2019 to 31st March 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)

Corridor	Constraint	Applicable Revisions
NR-WR	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak	Rev-0 to 4
WR-NR	(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
	Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
	RVO operation of HVDC Champa Kurukshetra Poles Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-1
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-2 to 4
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 4
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 4
WR-SR and ER-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
	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
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 4
NER-ER	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 4
W3 zone Injection	---	Rev-0 to 4

Limiting Constraints (Simultaneous)

			Applicable Revisions
NR	**Import**	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 4
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-2 to 4
		(n-1) Contingnecy of 765kV Aligarh-Jhatikara leads to 2500 MW loading on 765kV Aligarh-Greater Noida.	Rev-0 to 1
		Frequent tripping of HVDC Champa - Kurukshetra poles	Rev-0
		RVO operation of HVDC Champa Kurukshetra Poles Reversal of BNC-Agra pole towards BNC & blocking of APD-Agra pole due to lean hydro period in NER	Rev-1
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 4
		(n-1) contingency of 400 kV Saranath-Pusauli	
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 4
	Export	a. (n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa b. High loading of 220 kV Balipara-Sonabil line(200 MW)	Rev-0 to 4
SR	**Import**	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0 to 4
		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
1	4th Jan 2019	Whole Month	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
			Revised TTC due to: (i) Change in load generation balance (ii) Commissioning of circuit 3 & 4 of 765 kV Angul Jharsuguda (iii) Prevailing pattern of load in downstream of 400/220 kV Maradam ICTs	ER-SR/WR-SR/Import of SR
2	28th Jan 2019	Whole Month	Revised TTC due to normalization of Champa Kurukshetra bipole	WR-NR/Import of NR
			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
3	27th Feb 2019	01st Mar 2019 to 09th Mar 2019	Shutdown of 400/220 KV ICT-I at Misa for augmentation of existing ICT	ER-NER/NER-ER (Import/Export of NER)
		10th Mar 2019 to 31st Mar 2019	Change in load - generation balance in NER	ER-NER (Import of NER)
4	07th Mar 2019	08th Mar 2019 to 31st Mar 2019	Operationalization of 87 MW LTA from Teesta - III HEP to Rajasthan	ER-NR/Import of NR
			Operationalization of 50 MW LTA from Orange Sirong Wind Power Limited (OSWPPL) to Haryana	WR-NR/Import of NR

ASSUMPTIONS IN BASECASE					
				Month : March'19	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	NORTHERN REGION				
1	Punjab	7631	5304	3251	3411
2	Haryana	7632	6427	2416	2583
3	Rajasthan	10162	10300	5870	5563
4	Delhi	4284	2991	541	541
5	Uttar Pradesh	13764	11993	6360	6181
6	Uttarakhand	1805	1129	722	273
7	Himachal Pradesh	1447	1176	204	87
8	Jammu & Kashmir	2034	1487	292	258
9	Chandigarh	241	124	0	0
10	ISGS/IPPs	30	29	18516	11014
	Total NR	49030	40961	38172	29911
II	EASTERN REGION				
1	Bihar	3735	2424	351	207
2	Jharkhand	970	764	360	223
3	Damodar Valley Corporation	2950	2716	5233	4381
4	Orissa	3969	3052	2364	1707
5	West Bengal	6784	4769	5378	4065
6	Sikkim	104	103	0	0
7	Bhutan	207	205	643	336
8	ISGS/IPPs	1120	622	12272	9067
	Total ER	19839	14656	26600	19986
III	WESTERN REGION				
1	Maharashtra	17960	14784	12516	11172
2	Gujarat	13475	11383	8764	8663
3	Madhya Pradesh	10868	7296	5106	4320
4	Chattisgarh	3606	2974	2248	2297
5	Daman and Diu	324	247	0	0
6	Dadra and Nagar Haveli	793	626	0	0
7	Goa-WR	522	334	0	0
8	ISGS/IPPs	4337	3788	37969	27558
	Total WR	51885	41432	66603	54011

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	7075	6103	4712
2	Telangana	9743	7879	4823	4423
3	Karnataka	10431	6863	7633	5219
4	Tamil Nadu	14513	10701	6958	5513
5	Kerala	3871	2392	1678	402
6	Pondy	329	337	0	0
7	Goa-SR	74	76	0	0
8	ISGS/IPPs	0	0	14302	12280
	Total SR	47093	35324	41497	32550
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	133	72	0	0
2	Assam	1233	1035	185	142
3	Manipur	162	92	0	0
4	Meghalaya	301	216	197	105
5	Mizoram	90	67	8	14
6	Nagaland	115	76	12	6
7	Tripura	198	142	72	75
8	ISGS/IPPs	116	76	1902	1404
	Total NER	2348	1776	2376	1746
	Total All India	170195	134586	175247	138576