

National Load Despatch Centre
Total Transfer Capability for May 2019

Issue Date: 07th March 2019

Issue Time: 1300 hrs

Revision No. 1

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 May 2019 to 31st May 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st May 2019 to 31st May 2019	00-24	13250	500	12750	9433	3317		Revised STOA margin due to operationalization of 50 MW LTA from Orange Sirong Wind Power Limited (OSWPL) to Haryana.
			12300**		11800**	8483**	3317**		
NR-ER*	1st May 2019 to 31st May 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st May 2019 to 31st May 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 May 2019 to 31st May 2019	00-24	No limit is being specified.						
ER-W3	1st May 2019 to 31st May 2019	00-24	No limit is being specified.						
WR-SR	1st May 2019 to 31st May 2019	00-05	5550	500	5050	4435	615		
		05-22	5550		5050		615		
		22-24	5550		5050		615		
SR-WR *	1st May 2019 to 31st May 2019	00-24	No limit is being Specified.						
ER-SR	1st May 2019 to 31st May 2019	00-06	4950	250	4700	2762	1938		
		06-18				2847	1853		
		18-24				2762	1938		
SR-ER *	1st May 2019 to 31st May 2019	00-24	No limit is being Specified.						

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ER-NER	1st May 2019 to 31st May 2019	00-17	1220	45	1175	225	950		
		17-23	1210		1165		940		
		23-24	1220		1175		950		
NER-ER	1st May 2019 to 31st May 2019	00-17	2350	45	2305	0	2305		
		17-23	2250		2205		2205		
		23-24	2350		2305		2305		

W3 zone Injection	1st May 2019 to 31st May 2019	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
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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) KWPCCL, n)Vandana Vidyut o)RKM, p)GMR Raikhedra, 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 commissioned 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									
NR	1st May 2019 to 31st May 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**		
		17-24	17000 16050**		16200 15250**		2788 2788**		
NER	1st May 2019 to 31st May 2019	00-17	1220	45	1175	225	950		
		17-23	1210		1165		940		
		23-24	1220		1175		950		
WR									
SR	1st May 2019 to 31st May 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 May 2019 to 31st May 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st May 2019 to 31st May 2019	00-17	2350	45	2305	0	2305		
		17-23	2250		2205				
		23-24	2350		2305				
WR									
SR *	1st May 2019 to 31st May 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 Badod-Modak	Rev-0 to 1
WR-NR	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-0 to 1
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 1
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 1
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 1
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 1
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 1
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 1
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 1
W3 zone Injection	---	Rev-0 to 1

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 n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (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)
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa
SR	Import	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT
		Low Voltage at Gazuwaka (East) Bus.

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	07th Mar 2019	Whole Month	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 : May'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	8184	7955	3655	3772
2	Haryana	7742	6060	1804	1804
3	Rajasthan	10821	11351	6619	6619
4	Delhi	5736	5654	584	584
5	Uttar Pradesh	13815	11240	5896	6027
6	Uttarakhand	1968	1197	903	629
7	Himachal Pradesh	1513	965	376	345
8	Jammu & Kashmir	2964	2350	1148	1147
9	Chandigarh	323	221	0	0
10	ISGS/PPs	29	29	21130	14994
	Total NR	53095	47021	42115	35921
II	EASTERN REGION				
1	Bihar	4571	3152	4571	171
2	Jharkhand	1181	849	1181	283
3	Damodar Valley Corporation	2967	2755	2967	3803
4	Orissa	4321	3222	4321	2009
5	West Bengal	7680	5576	7680	4153
6	Sikkim	105	90	105	0
7	Bhutan	197	194	197	604
8	ISGS/PPs	628	630	628	8637
	Total ER	21650	16467	21650	19659
III	WESTERN REGION				
1	Maharashtra	18707	17047	13072	12944
2	Gujarat	15115	13873	9051	8967
3	Madhya Pradesh	8232	8092	4716	5286
4	Chattisgarh	3573	3193	2615	2096
5	Daman and Diu	330	301	0	0
6	Dadra and Nagar Haveli	802	726	0	0
7	Goa-WR	497	418	0	0
8	ISGS/PPs	4757	4430	40073	33911
	Total WR	52014	48079	69527	63203

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	8462	7402	6235	4712
2	Telangana	7706	6264	4132	3567
3	Karnataka	9349	5394	7772	4852
4	Tamil Nadu	15245	13279	8114	6938
5	Kerala	4131	2670	1698	427
6	Pondy	359	358	0	0
7	Goa-SR	72	70	0	0
8	ISGS/PPs	0	0	12349	12028
	Total SR	45325	35436	40300	32525
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	138	64	0	0
2	Assam	1516	1225	225	182
3	Manipur	178	84	0	0
4	Meghalaya	273	203	229	154
5	Mizoram	99	68	64	8
6	Nagaland	119	81	21	8
7	Tripura	245	147	75	75
8	ISGS/PPs	152	78	2093	1617
	Total NER	2721	1950	2707	2044
	Total All India	175296	149380	181738	153992