

**National Load Despatch Centre
Total Transfer Capability for June 2019**

Issue Date: 28th April 2019

Issue Time: 1800 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 June 2019 to 30th June 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st June 2019 to 30th June 2019	00-24	13250	500	12750	9842	2908		Revised STOA margin due to the following:- a) Operationalization of 73.75 MW LTA to DMRC from Rewa UMSP - ACME Power (29.5 MW), Arinsun Power (29.5 MW) and Mahindra Power (14.75 MW) b) Change in LTA from KSK Mahanadi to UP from 750 MW to 950 MW c) Change in LTA from Tuticorin - Mytrah Power to UP from 51.84 MW to 74.82 MW d) Change in LTA from Tuticorin - Orange Power to Haryana from 50 MW to 100 MW e) Change in LTA from Ostro Kutch Wind Private Limited to UP from 90.2 MW to 100 MW
			12300**		11800**	8892**	2908**		
NR-ER*	1st June 2019 to 30th June 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st June 2019 to 30th June 2019	00-24	5250	300	4950	3979	971		
W3-ER	1st June 2019 to 30th June 2019	00-24	No limit is being specified.						
ER-W3	1st June 2019 to 30th June 2019	00-24	No limit is being specified.						
WR-SR	1st June 2019 to 30th June 2019	00-05	5550	500	5050	4213	837		Revised STOA margin due to the following:- a) Change in MTOA from KSK Mahanadi to AP from 400 MW to 150 MW b) Operationalization of 13.65 MW MTOA NSPCL to SAIL, Salem (TN)
		05-22	5550		5050		837		
		22-24	5550		5050		837		
SR-WR *	1st June 2019 to 30th June 2019	00-24	No limit is being Specified.						
ER-SR	1st June 2019 to 30th June 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		
SR-ER *	1st June 2019 to 30th June 2019	00-24	No limit is being Specified.						

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ER-NER	1st June 2019 to 30th June 2019	00-17	1020	45	975	267	708		Revised STOA margin due to the following:- a) Change in LTA from Tutitorin Mytrah Power to Assam from 25.74 MW to 37.4 MW
		17-23	1080		1035		768		
		23-24	1020		975		708		
NER-ER	1st June 2019 to 30th June 2019	00-17	2280	45	2235	0	2235		
		17-23	2460		2415		2415		
		23-24	2280		2235		2235		
W3 zone Injection	1st June 2019 to 30th June 2019	00-24	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.

* 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 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 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 June 2019 to 30th June 2019	00-06	17650 16700**	800	16850 15900**	13821 12871**	3029 3029**		Revised STOA margin due to the following:- a) Operationalization of 73.75 MW LTA to DMRC from Rewa UMSP - ACME Power (29.5 MW), Arinsun Power (29.5 MW) and Mahindra Power (14.75 MW) b) Change in LTA from KSK Mahanadi to UP from 750 MW to 950 MW c) Change in LTA from Tuticorin - Mytrah Power to UP from 51.84 MW to 74.82 MW d) Change in LTA from Tuticorin - Orange Power to Haryana from 50 MW to 100 MW e) Change in LTA from Ostro Kutch Wind Private Limited to UP from 90.2 MW to 100 MW
		06-17	18900 17950**		18100 17150**		4279 4279**		
		17-24	17000 16050**		16200 15250**		2379 2379**		
NER	1st June 2019 to 30th June 2019	00-17	1020	45	975	267	708		Revised STOA margin due to the following:- a) Change in LTA from Tuticorin Mytrah Power to Assam from 25.74 MW to 37.4 MW
		17-23	1080		1035		768		
		23-24	1020		975		708		
WR									
SR	1st June 2019 to 30th June 2019	00-06	10500	750	9750	6961	2789		Revised STOA margin due to the following:- a) Change in MTOA from KSK Mahanadi to AP from 400 MW to 150 MW b) Operationalization of 13.65 MW MTOA NSPCL to SAIL, Salem (TN)
		06-18	10500		9750	7046	2704		
		18-24	10500		9750	6961	2789		

* 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 June 2019 to 30th June 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24			3800	388	3412		
NER	1st June 2019 to 30th June 2019	00-17	2280	45	2235	0	2235		
		17-23	2460		2415				
		23-24	2280		2235		2235		
WR									
SR *	1st June 2019 to 30th June 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 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-0 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
	Export	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT
NER	Import	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Bhanpura-Modak.
	Export	(n-1) contingency of 400 kV Saranath-Pusauli
NR	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	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)
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
2	28th Mar 2019	Whole Month	Operationalization of the following LTAs:- a) Tuticorin - Mytrah Power to UPPCL, Uttar Pradesh - 51.84 MW	WR-NR/Import of NR
			Allocation of 40 MW power from Mouda Stg-II to Assam	ER-NER/Import of NER
3	05th April 2019	Whole Month	a) Operationalization of 25.74 MW LTA from Tuticorin Mytrah Power to Assam. b) Operationalization of 5 MW LTA from Rajasthan (Solar Power) to Assam. c) Completion of the period of allocation of 40 MW power from Mouda Stg-II to Assam.	ER-NER/Import of NER
4	28th April 2019	Whole Month	a) Operationalization of 73.75 MW LTA to DMRC from Rewa UMSP - ACME Power (29.5 MW), Arinsun Power (29.5 MW) and Mahindra Power (14.75 MW) b) Change in LTA from KSK Mahanadi to UP from 750 MW to 950 MW c) Change in LTA from Tuticorin - Mytrah Power to UP from 51.84 MW to 74.82 MW d) Change in LTA from Tuticorin - Orange Power to Haryana from 50 MW to 100 MW e) Change in LTA from Ostro Kutch Wind Private Limited to UP from 90.2 MW to 100 MW	WR-NR/Import of NR
			Change in LTA from Tuticorin Mytrah Power to Assam from 25.74 MW to 37.4 MW	ER-NER/Import of NER
			a) Change in MTOA from KSK Mahanadi to AP from 400 MW to 150 MW b) Operationalization of 13.65 MW MTOA NSPCL to SAIL, Salem (TN)	WR-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : June'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	9674	9921	4554	4420
2	Haryana	8100	8297	1804	1804
3	Rajasthan	11941	11831	8923	8923
4	Delhi	6316	6647	860	860
5	Uttar Pradesh	17366	15270	8505	8514
6	Uttarakhand	2120	2162	1058	911
7	Himachal Pradesh	1604	1349	836	769
8	Jammu & Kashmir	2659	2384	812	1286
9	Chandigarh	346	292	0	0
10	ISGS/IPPs	29	29	21041	18890
	Total NR	60155	58182	48393	46376
II	EASTERN REGION				
1	Bihar	4369	3260	208	164
2	Jharkhand	1296	889	389	267
3	Damodar Valley Corporation	2757	2851	5367	3602
4	Orissa	4183	3555	3020	1906
5	West Bengal	8554	5927	6226	4108
6	Sikkim	100	93	0	0
7	Bhutan	197	197	1018	1097
8	ISGS/IPPs	294	294	11522	8973
	Total ER	21750	17066	27750	20117
III	WESTERN REGION				
1	Maharashtra	17042	15322	11227	11269
2	Gujarat	14986	14971	8552	8555
3	Madhya Pradesh	7796	7505	3567	4645
4	Chattisgarh	3372	3000	1905	2553
5	Daman and Diu	320	307	0	0
6	Dadra and Nagar Haveli	752	754	0	0
7	Goa-WR	485	342	0	0
8	ISGS/IPPs	4397	4235	40908	36436
	Total WR	49150	46437	66159	63460

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	8942	6902	5919	4357
2	Telangana	8337	6461	4431	3591
3	Karnataka	7500	5000	4716	4025
4	Tamil Nadu	15200	13901	8036	6573
5	Kerala	3706	2226	1459	192
6	Pondy	358	358	0	0
7	Goa-SR	70	70	0	0
8	ISGS/IPPs	0	0	13977	12028
	Total SR	44113	34918	38539	30766
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	132	64	0	0
2	Assam	1729	1280	235	192
3	Manipur	179	85	0	0
4	Meghalaya	286	218	272	246
5	Mizoram	101	69	64	8
6	Nagaland	121	83	21	12
7	Tripura	246	151	77	77
8	ISGS/IPPs		85		2035
	Total NER	2954	2035	2902	2570
	Total All India	178946	159463	185285	164747