National Load Despatch Centre
Total Transfer Capability for July 2019

Issue Date: 25th June2019 Issue Time: 1600 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
NR-WR*	1st July 2019 to 31st July 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st July 2019 to 31st July 2019	00-24	13250 12300**	500	12750 11800**	9783 8833**	2967 2967**		
NR-ER*	1st July 2019 to 31st July 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st July 2019 to 31st July 2019	00-24	5250	300	4950	3979	971		
W3-ER	1st July 2019 to 31st July 2019	00-24	No limit is being specified.						
ER-W3	1st July 2019 to 31st July 2019	00-24	No limit is being specified.						
WR-SR	1st July 2019 to 31st July 2019	00-05	5550	500	5050	4041	1009		Revised STOA margin due to: (a) Revision in MTOA quantum from KSK to Andhra Pradesh from earlier 340 MW to o 38.5 MW (b) MTOA quantum of 200 MW from Jindal Power to Tamilnadu
		05-22	5550		5050		1009		
		22-24	5550		5050		1009		
SR-WR *	1st July 2019 to 31st July 2019	00-24	No limit is being Specified.						
ER-SR	1st July 2019 to 15th July 2019	00-06	4950	250	4700	2248	2452		Revised STOA margin due to annual maintenance of 500 MW Talcher Stage 2 Unit #3
		06-18				2333	2367		
		18-24				2248	2452		
	16th July 2019 to 31st July 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		
SR-ER *	1st July 2019 to 31st July 2019	00-24	No limit is being Specified.						
ER-NER	1st July 2019 to 31st July 2019	00-17	1010	45	965	280	685		
		17-23	1080		1035		755		
		23-24	1010		965		685		
NER-ER	1st July 2019 to 31st July 2019	00-17	2220	45	2175	0	2175		
		17-23	2460		2415		2415		
		23-24	2220		2175		2175		

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W3 zone Injection	1st July 2019 to 31st July 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 July 2019 to 31st July 2019	00-06	17650 16700**	800	16850 15900**	13762 12812**	3088 3088**		
		06-17	18900 17950**		18100 17150**		4388 4388**		
		17-24	17000 16050**		16200 15250**		2438 2438**		
NER	1st July 2019 to 31st July 2019	00-17	1010	45	965	280	685		
		17-23	1080		1035		755		
		23-24	1010		965		685		
WR									
SR	1st July 2019 to 15th July 2019	00-06	10500	750	9750	6289	3461		Revised STOA margin due to: (a) Annual maintenance of 500 MW Talcher Stage 2 Unit #3 (b) Revision in MTOA quantum from KSK to Andhra Pradesh from earlier 340 MW to o 38.5 MW (c) MTOA quantum of 200 MW from Jindal Power to Tamilnadu
		06-18	10500		9750	6374	3376		
		18-24	10500		9750	6289	3461		
	16th July 2019 to 31st July 2019	00-06	10500	750	9750	6789	2961		Revised STOA margin due to: (a) Revision in MTOA quantum from KSK to Andhra Pradesh from earlier 340 MW to o 38.5 MW (b) MTOA quantum of 200 MW from Jindal Power to Tamilnadu
		06-18	10500		9750	6874	2876		
		18-24	10500		9750	6789	2961		

* 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 July 2019 to 31st July 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st July 2019 to 31st July 2019	00-17	2700	45	2655	0	2655		
		17-23	2890		2845		2845		
		23-24	2700		2655		2655		
WR									
SR *	1st July 2019 to 31st July 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 Bhanpura-Modak	Rev-0 to 5
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 3
	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev - 4 to 5
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev -0 to 5
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 5
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 5
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev -0 to 5
	Low Voltage at Gazuwaka (East) Bus.	Rev -0 to 5
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 5
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 5
W3 zone Injection	---	Rev -0 to 5

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 5
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Agra (PG) will lead to overloading of the second ICT	Rev-0 to 3
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev-4 to 5
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 5
		(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 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
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 5
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 5
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 5

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	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
2	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 MWto 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 Tutitorin 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
3	24th May 2019	Whole Month	Change in LTA quantum from Tuticorin Mytrah Power to Assam from 37.4 MW to 50 MW	ER-NER/Import of NER
4	28th May'19	Whole Month	a) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to Punjab. b) Operationalization of 23.2 MW LTA from RPL-SECI-II (RE) to UP. c) Change in LTA quantum from Mytrah Power to UP from 75 MW to 100 MW. d) Change in LTA quantum from KSK Mahanadi to UP from 950 MW to 820 MW. e) Change in LTA quantum from ACME - RUMS to DMRC from 30 to 33 MW. f) Change in LTA quantum from ARINSUN - Rewa UMSP to DMRC from 30 to 33 MW. g) Change in LTA quantum from Mahindra - Rewa UMSP to DMRC from 15 to 7.75 MW.	WR-NR/Import of NR
			a) Change in MTOA quantum from KSK Mahanadi to AP from 150 MW to 340 MW. b) Change in LTA quantum from KSK Mahanadi to TN from 500 MW to 440 MW. c) Completion of 200 MW MTOA from JPL -II to TN.	WR-SR/Import of SR
5	25th June 2019	Whole Month	Revised STOA margin due to: (a) Annual maintenance of 500 MW Talcher Stage 2 Unit #3 (b) Revised MTOA from KSK to Andhra Pradesh to 38.5 MW from earlier 340 MW (c) Revised MTOA from Jindal Power to Tamilnadu to 200 MW	WR-SR/ER-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : July'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	10250	11742	4780	4800
2	Haryana	8317	8028	1804	1804
3	Rajasthan	11243	9679	7787	7799
4	Delhi	6320	6125	860	860
5	Uttar Pradesh	17229	17131	8644	8621
6	Uttarakhand	2195	1882	993	833
7	Himachal Pradesh	1609	1345	815	808
8	Jammu & Kashmir	3046	1923	1302	1301
9	Chandigarh	351	259	0	0
10	ISGS/IPPs	29	29	21398	19959
	Total NR	60589	58143	48383	46785
II	EASTERN REGION				
1	Bihar	4612	3116	208	168
2	Jharkhand	1369	849	389	274
3	Damodar Valley Corporation	2913	2723	5367	3690
4	Orissa	4405	3408	3020	1952
5	West Bengal	8931	5741	6226	4208
6	Sikkim	105	89	0	0
7	Bhutan	198	195	1048	1097
8	ISGS/IPPs	294	605	11522	9561
	Total ER	23135	16726	28250	20952
III	WESTERN REGION				
1	Maharashtra	16519	12329	11941	9637
2	Gujarat	13991	11043	10010	8186
3	Madhya Pradesh	8143	6183	4045	3434
4	Chattisgarh	3926	2901	2690	2080
5	Daman and Diu	320	292	0	0
6	Dadra and Nagar Haveli	744	731	0	0
7	Goa-WR	536	329	0	0
8	ISGS/IPPs	4397	2734	40908	20998
	Total WR	47538	36543	55273	44335

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	8521	7712	6363	4357
2	Telangana	10865	9259	4607	4340
3	Karnataka	10097	4946	8740	4462
4	Tamil Nadu	15419	13443	8712	6913
5	Kerala	3666	2175	1458	381
6	Pondy	359	354	0	0
7	Goa-SR	70	69	0	0
8	ISGS/IPPs	0	0	13977	12028
	Total SR	48998	37958	43402	32481
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	134	62	0	0
2	Assam	1808	1295	255	192
3	Manipur	178	83	0	0
4	Meghalaya	284	206	301	214
5	Mizoram	101	68	66	33
6	Nagaland	127	83	21	12
7	Tripura	252	149	80	80
8	ISGS/IPPs		99		2352
	Total NER	3044	2046	3150	2883
	Total All India	184769	152866	191199	157257