National Load Despatch Centre
Total Transfer Capability for August 2019

Issue Date: 22nd July 2019 Issue Time: 1200 hrs Revision No. 8

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 August 2019 to 31st August 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st August 2019 to 31st August 2019	00-24	13500 12550**	500	13000 12050**	10060 9110**	2940 2940**		
NR-ER*	1st August 2019 to 31st August 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st August 2019 to 31st August 2019	00-24	5250	300	4950	3979	971		
W3-ER	1st August 2019 to 31st August 2019	00-24	No limit is being specified.						
ER-W3	1st August 2019 to 31st August 2019	00-24	No limit is being specified.						
WR-SR	1st August 2019 to 21st August 2019	00-05	5550	500	5050	4101	949		
		05-22	5550		5050		949		
		22-24	5550		5050		949		
	22nd August 2019	00-05	5550	500	5050	4101	949		
		05-830	5550		5050		949		
		830-22	4850		4350		249		
		22-24	4850		4350		249		
	23rd August 2019	00-05	5550	500	5050	4101	949		Revised due to rescheduling of 765kV Wardha-Nizamabad-2 to 24.08.19
		05-830	5550		5050		949		
		830-22	5550		5050		949	700	
		22-24	5550		5050		949	700	
	24th August 2019	00-05	5550	500	5050	4101	949		Revised due to shutdown of 765kV Wardha-Nizamabad-2
		05-830	5550		5050		949		
		830-22	4850		4350		249	-700	
		22-24	4850		4350		249	-700	
	25th August 2019 to 31st August 2019	00-05	5550	500	5050	4101	949		
		05-22	5550		5050		949		
		22-24	5550		5050		949		
SR-WR *	1st August 2019 to 31st August 2019	00-24	No limit is being Specified.						
ER-SR	1st August 2019 to 20th August 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		
	21st August 2019	00-06	4950	250	4700	2748	1952		
		06-730				2833	1867		
		730-18	4650		4400	2833	1567		
		18-24				2748	1652		
	22nd August 2019 to 31st August 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		

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SR-ER *	1st August 2019 to 31st August 2019	00-24	No limit is being Specified.						
ER-NER	1st August 2019 to 31st August 2019	00-17	1100	45	1055	310	745		
		17-23	925		880		570		
		23-24	1100		1055		745		
NER-ER	1st August 2019 to 31st August 2019	00-17	2705	45	2660	0	2660		
		17-23	2600		2555		2555		
		23-24	2705		2660		2660		
W3 zone Injection	1st August 2019 to 31st August 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 August 2019 to 31st August 2019	00-06	18500 17550**	800	17700 16750**	14039 13089**	3661 3661**		
		06-09	19850 18900**		19050 18100**		5011 5011**		
		09-17	18500 17550**		17700 16750**		3661 3661**		
		17-24	18000 17050**		17200 16250**		3161 3161**		
NER	1st August 2019 to 31st August 2019	00-17	1450	45	1405	310	1095		
		17-23	1050		1005		695		
		23-24	1450		1405		1095		
WR									
SR	1st August 2019 to 20th August 2019	00-06	10500	750	9750	6849	2901		
		06-18	10500		9750	6934	2816		
		18-24	10500		9750	6849	2901		
	21st August 2019	00-06	10500	750	9750	6849	2901		
		06-730	10500		9750	6934	2816		
		730-18	10200		9450	6934	2516		
		18-24	10200		9450	6849	2601		
	22nd August 2019	00-06	10500	750	9750	6849	2901		
		06-830	10500		9750	6934	2816		
		830-18	9800		9050	6934	2116		
		18-24	9800		9050	6849	2201		
	23rd August 2019	00-06	10500	750	9750	6849	2901		Revised due to rescheduling of 765kV Wardha-Nizamabad-2 to 24.08.19
		06-830	10500		9750	6934	2816		
		830-18	10500		9750	6934	2816	700	
		18-24	10500		9750	6849	2901	700	
	24th August 2019	00-06	10500	750	9750	6849	2901		Revised due to shutdown of 765kV Wardha-Nizamabad-2
		06-830	10500		9750	6934	2816		
		830-18	9800		9050	6934	2116	-700	
		18-24	9800		9050	6849	2201	-700	
	25th August 2019 to 31st August 2019	00-06	10500	750	9750	6849	2901		
		06-18	10500		9750	6934	2816		
		18-24	10500		9750	6849	2901		

* 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 August 2019 to 31st August 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st August 2019 to 31st August 2019	00-17	2705	45	2660	0	2660		
		17-23	2600		2555		2555		
		23-24	2705		2660		2660		
WR									
SR *	1st August 2019 to 31st August 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 8
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
	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev - 2 to 8
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0 to 8
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 8
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 8
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 8
	Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8
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 8
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 8
W3 zone Injection	---	Rev-0 to 8

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 8
		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
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida	Rev - 2 to 8
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0 to 8
		(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 8
	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 8
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 8
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0 to 8
		Low Voltage at Gazuwaka (East) Bus.	Rev-0 to 8

National Load Despatch Centre
Total Transfer Capability for August 2019

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	24th May'19	Whole Month	Change in LTA quantum from Tuticorin Mytrah Power to Assam from 37.4 MW to 50 MW	ER-NER/Import of NER
2	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
3	25th June 2019	Whole Month	Revised STOA margin due to: (a) Revision in MTOA quantum from KSK to Andhra Pradesh from 340 MW to 38.5 MW (b) MTOA of 200 MW from Jindal Power to Tamilnadu	WR-SR/Import of SR
4	28th June 2019	Whole Month	a) Change in Load Generation Balance in NER b) Operationalization of 30 MW LTA from Green Infra Wind Energy Ltd. (GIWEL-Bhuj) to Assam.	ER-NER/NER-ER/Import and Export of NER
			a) Revision in LTA quantum from RPL-SECI-II (RE) to Punjab from 23.2 MW to 41.6 MW. b) Revision in LTA quantum from RPL-SECI-II (RE) to UP from 23.2 MW to 41.6 MW.	WR-NR/Import of NR
5	28th July 2019	Whole Month	A) Revision in TTC/ATC due to commissioning of 765 kV Banaskantha – Chittorgarh – Ajmer – Bikaner corridor. B) Revised STOA margin due to the following:- a) Revision in LTA quantum from RPL-SECI-II to Punjab- from 41.6 MW to 47.2 MW b) Revision in LTA quantum from RPL-SECI-II to UPPCL- from 41.6 MW to 47.2 MW c) Revision in LTA quantum from MAHINDRA RUMS to DMRC- from 7.75 MW to 7.8 MW d) Operationalization of 49 MW MTOA from GIWEL-SECI-III to Punjab e) Revision in LTA quantum from KSK Mahanadi to UPPCL from 820 MW to 1000 MW	WR-NR/Import of NR
			Change in Load-Generation balance in NER.	ER-NER/NER-ER/Import and Export of NER
			Revision in LTA quantum from KSK Mahanadi to TN from 440 MW to 500 MW	WR-SR/Import of SR
6	19th Aug 2019	21st Aug 2019	Revised due to shutdown of 400kV Bolangir-Jeypore line	ER-SR/Import of SR
7	20th Aug 2019	22nd August 2019	Revised due to shutdown of 765kV Wardha-Nizamabad-1	WR-SR/Import of SR
8	22nd Aug 2019	23rd August 2019	Revised due to rescheduling of 765kV Wardha-Nizamabad-2 to 24.08.19	WR-SR/Import of SR
		24th August 2019	Revised due to shutdown of 765kV Wardha-Nizamabad-2	WR-SR/Import of SR

ASSUMPTIONS IN BASECASE					
				Month : August'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	11409	10282	5311	5317
2	Haryana	8551	7937	2055	2055
3	Rajasthan	12256	12733	7743	7779
4	Delhi	6144	6014	860	860
5	Uttar Pradesh	16521	15725	8770	8628
6	Uttarakhand	2128	1660	1011	1005
7	Himachal Pradesh	1587	1221	768	841
8	Jammu & Kashmir	2927	1813	1295	1287
9	Chandigarh	360	291	0	0
10	ISGS/IPPs	29	29	21398	19959
	Total NR	61911	57704	49858	47448
II	EASTERN REGION				
1	Bihar	4736	3196	218	168
2	Jharkhand	1378	894	409	324
3	Damodar Valley Corporation	2890	2691	5347	3710
4	Orissa	4573	3315	3426	2135
5	West Bengal	8876	6235	6226	4638
6	Sikkim	104	87	0	0
7	Bhutan	196	192	1502	1539
8	ISGS/IPPs	294	605	11522	9561
	Total ER	23383	17242	28816	21910
III	WESTERN REGION				
1	Maharashtra	16686	11635	12358	9454
2	Gujarat	14784	11264	10889	7970
3	Madhya Pradesh	8449	6463	4565	4738
4	Chattisgarh	4202	3260	2690	2531
5	Daman and Diu	312	303	0	0
6	Dadra and Nagar Haveli	788	739	0	0
7	Goa-WR	443	311	0	0
8	ISGS/IPPs	4397	2734	40908	20998
	Total WR	50106	37736	67270	52246

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	7635	7789	6331	4357
2	Telangana	11672	10096	5436	4458
3	Karnataka	7975	4875	7027	4462
4	Tamil Nadu	15150	13043	8157	6258
5	Kerala	3688	2142	1549	423
6	Pondy	358	344	0	0
7	Goa-SR	70	67	0	0
8	ISGS/IPPs	0	0	13977	12028
	Total SR	46549	38357	41069	31986
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	129	69	0	0
2	Assam	1715	1276	255	192
3	Manipur	184	88	0	0
4	Meghalaya	280	206	272	246
5	Mizoram	101	67	62	44
6	Nagaland	130	133	22	6
7	Tripura	254	161	75	75
8	ISGS/IPPs		99		2352
	Total NER	2962	2087	3067	2858
	Total All India	184769	152866	191199	157257