National Load Despatch Centre
Total Transfer Capability for September 2019

Issue Date: 28th May 2019 Issue Time: 1400 hrs Revision No. 0

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 September 2019 to 30th September 2019	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st September 2019 to 30th September 2019	00-24	13250 12300**	500	12750 11800**	9783 8833**	2967 2967**		
NR-ER*	1st September 2019 to 30th September 2019	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st September 2019 to 30th September 2019	00-24	5250	300	4950	3979	971		
W3-ER	1st September 2019 to 30th September 2019	00-24	No limit is being specified.						
ER-W3	1st September 2019 to 30th September 2019	00-24	No limit is being specified.						
WR-SR	1st September 2019 to 30th September 2019	00-05	5550	500	5050	4143	907		
		05-22	5550		5050		907		
		22-24	5550		5050		907		
SR-WR *	1st September 2019 to 30th September 2019	00-24	No limit is being Specified.						
ER-SR	1st September 2019 to 30th September 2019	00-06	4950	250	4700	2748	1952		
		06-18				2833	1867		
		18-24				2748	1952		
SR-ER *	1st September 2019 to 30th September 2019	00-24	No limit is being Specified.						
ER-NER	1st September 2019 to 30th September 2019	00-17	1000	45	955	280	675		
		17-23	1020		975		695		
		23-24	1000		955		675		
NER-ER	1st September 2019 to 30th September 2019	00-17	2880	45	2835	0	2835		
		17-23	2710		2665		2665		
		23-24	2880		2835		2835		

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W3 zone Injection	1st September 2019 to 30th September 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 September 2019 to 30th September 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 September 2019 to 30th September 2019	00-17	1000	45	955	280	675		
		17-23	1020		975		695		
		23-24	1000		955		675		
WR									
SR	1st September 2019 to 30th September 2019	00-06	10500	750	9750	6891	2859		
		06-18	10500		9750	6976	2774		
		18-24	10500		9750	6891	2859		

* 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 September 2019 to 30th September 2019	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24	4500		3800	388	3412		
NER	1st September 2019 to 30th September 2019	00-17	2880	45	2835	0	2835		
		17-23	2710		2665		2665		
		23-24	2880		2835		2835		
WR									
SR *	1st September 2019 to 30th September 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
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev-0
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev-0
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
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
	n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0
	Low Voltage at Gazuwaka (East) Bus.	Rev-0
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
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
W3 zone Injection	---	Rev-0

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
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overlaoding of 765 kV Aligarh - Gr. Noida Line	Rev-0
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev-0
		(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
	Export	(n-1) contingency of 400/220 kV, 2x315 MVA ICTs at Misa results in high loading of other ICT at Misa	Rev-0
SR	**Import**	n-1 contingency of 2x315 MVA, 400/220 kV ICTs at Mardam will lead to overloading of the second ICT	Rev-0
		n-1 contingency of 2x1500 MVA, 765/400 kV ICTs at Vemagiri (PG) will lead to overloading of the second ICT	Rev-0
		Low Voltage at Gazuwaka (East) Bus.	Rev-0

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected

ASSUMPTIONS IN BASECASE					
				Month : September'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	9698	9517	4169	4168
2	Haryana	7972	7269	1804	1804
3	Rajasthan	10912	11558	6950	6950
4	Delhi	5804	5003	819	819
5	Uttar Pradesh	15592	16146	8351	8194
6	Uttarakhand	2247	2285	1153	1156
7	Himachal Pradesh	1576	1359	849	822
8	Jammu & Kashmir	2978	2206	1222	1208
9	Chandigarh	340	244	0	0
10	ISGS/IPPs	29	29	20822	19096
	Total NR	57149	55616	46139	44217
II	EASTERN REGION				
1	Bihar	4676	3241	218	168
2	Jharkhand	1360	907	409	324
3	Damodar Valley Corporation	2853	2730	5347	3710
4	Orissa	4514	3363	3406	2135
5	West Bengal	8786	6299	6226	4638
6	Sikkim	103	89	0	0
7	Bhutan	194	194	1502	1539
8	ISGS/IPPs	631	605	11689	9561
	Total ER	23118	17453	28796	21910
III	WESTERN REGION				
1	Maharashtra	17370	16627	10888	11545
2	Gujarat	16587	14271	10858	9773
3	Madhya Pradesh	9501	8249	5768	4775
4	Chattisgarh	3772	4127	2089	2089
5	Daman and Diu	275	307	0	0
6	Dadra and Nagar Haveli	793	759	0	0
7	Goa-WR	485	339	0	0
8	ISGS/IPPs	4571	2734	38745	20998
	Total WR	53353	49331	68347	65187

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	8270	7937	6301	5003
2	Telangana	12455	10424	5600	4761
3	Karnataka	8368	4847	7464	4462
4	Tamil Nadu	14955	12787	9108	6612
5	Kerala	3739	2370	1556	406
6	Pondy	352	340	0	0
7	Goa-SR	69	67	0	0
8	ISGS/IPPs	0	0	13625	12028
	Total SR	48209	38772	43654	33272
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	141	65	0	0
2	Assam	1641	1363	255	192
3	Manipur	187	92	0	0
4	Meghalaya	275	208	259	233
5	Mizoram	99	68	56	40
6	Nagaland	128	82	22	12
7	Tripura	237	178	73	75
8	ISGS/IPPs	156	99	2307	2352
	Total NER	2864	2153	2972	2833
	Total All India	184692	163325	189908	167418