

**National Load Despatch Centre
Total Transfer Capability for June 2020**

Issue Date: 31st May 2020

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 2020 to 30th June 2020	00-06	2500	500	2000	195	1805		
		06-18				1223	777		
		18-24				195	1805		
WR-NR*	1st June 2020 to 30th June 2020	00-06	17200	500	16700	10219	6481		
			16250**		15750**	9269**			
		06-18	17200	500	16700	10608	6092		
			16250**		15750**	9658**			
		18-24	17200	500	16700	10219	6481		
			16250**		15750**	9269**			
NR-ER*	1st June 2020 to 30th June 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st June 2020 to 30th June 2020	00-24	5250	300	4950	4050	900		
W3-ER	1st June 2020 to 30th June 2020	00-24	No limit is being specified.						
ER-W3	1st June 2020 to 30th June 2020	00-24	No limit is being specified.						
WR-SR	1st June 2020 to 30th June 2020	00-05	6950	500	6450	4035	2415		
		05-22	6950		6450		2415		
		22-24	6950		6450		2415		
SR-WR *	1st June 2020 to 30th June 2020	00-24	4600	400	4200	550	3650		
ER-SR	1st June 2020 to 15th June 2020	00-06	5650	250	5400	2663	2737		
		06-18				2748	2652		
		18-24				2663	2737		
	16th June 2020 to 30th June 2020	00-06	5950	250	5700	2663	3037		
		06-18				2748	2952		
		18-24				2663	3037		
SR-ER *	1st June 2020 to 30th June 2020	00-24	No limit is being Specified.						
ER-NER	1st June 2020	00-02	1320	45	1275	289	986		
		02-07	1320		1275	289	986		
		07-12	1320		1275	334	941		
		12-17	1320		1275	334	941		
		17-18	1320		1275	289	986		
		18-22	1050		1005	289	716		
		22-23	1320		1275	289	986		
		23-24	1320		1275	289	986		
ER-NER	2nd June 2020 to 3rd June 2020	00-02	1320	45	1275	289	986	0	Revision in TTC/ATC due to planned outage of 400 kV Bongaigaon - Azara line
		02-07	1320		1275	289	986	0	
		07-0730	1320		1275	334	941	0	
		0730-12	1050		1005	334	671	-270	
		12-17	1050		1005	334	671	-270	
		17-18	1050		1005	289	716	-270	
		18-22	750		705	289	416	-300	
		22-23	1050		1005	289	716	-270	
		23-24	1050		1005	289	716	-270	

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ER-NER	4th June 2020 to 30th June 2020	00-02	1320	45	1275	289	986		
		02-07	1320		1275	289	986		
		07-12	1320		1275	334	941		
		12-17	1320		1275	334	941		
		17-18	1320		1275	289	986		
		18-22	1050		1005	289	716		
		22-23	1320		1275	289	986		
		23-24	1320		1275	289	986		
NER-ER	1st June 2020	00-02	1870	45	1825	0	1825		
		02-07	1870		1825		1825		
		07-12	1870		1825		1825		
		12-17	1870		1825		1825		
		17-18	1870		1825		1825		
		18-22	2040		1995		1995		
		22-23	1870		1825		1825		
		23-24	1870		1825		1825		
	2nd June 2020 to 3rd June 2020	00-02	1870	45	1825	0	1825	0	Revision in TTC/ATC due to planned outage of 400 kV Bongaigaon - Azara line
		02-07	1870		1825		1825	0	
		07-0730	1870		1825		1825	0	
		0730-12	1700		1655		1655	-170	
		12-17	1700		1655		1655	-170	
		17-18	1700		1655		1655	-170	
		18-22	1780		1735		1735	-260	
		22-23	1700		1655		1655	-170	
	23-24	1700	1655	1655	-170				
	4th June 2020 to 30th June 2020	00-02	1870	45	1825	0	1825		
		02-07	1870		1825		1825		
		07-12	1870		1825		1825		
		12-17	1870		1825		1825		
		17-18	1870		1825		1825		
		18-22	2040		1995		1995		
		22-23	1870		1825		1825		
23-24		1870	1825		1825				

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W3 zone Injection	1st June 2020 to 30th June 2020	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.

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of WR-SR and ER-SR corridor has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.

In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka SLDC by taking appropriate measures.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.

SR	1st June 2020 to 15th June 2020	00-06	12600	750	11850	6698	5152	
		06-18	12600		11850	6783	5067	
		18-24	12600		11850	6698	5152	
	16th June 2020 to 30th June 2020	00-06	12900	750	12150	6698	5452	
		06-18	12900		12150	6783	5367	
		18-24	12900		12150	6698	5452	

* 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 = $A * C / (B + C)$

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section.

Though 2X315 MVA, 400/220 kV ICTs at Maradam are N-1 non-compliant, the TTC of SR Import has not been restricted due to the same considering that this aspect will be managed by AP SLDC through appropriate measures like SPS implementation.

In case of drawl of Karnataka beyond 3800 MW, the voltages in Bengaluru area are observed to be critically low. This issue may be taken care of by Karnataka by taking appropriate measures.

WR-NR/Import of NR TTC has been calculated considering generation at Pariccha TPS as 350 MW. TTC figures are subject to change with significant change in generation at Pariccha TPS.

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 2020 to 30th June 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	1526	2274		
		18-24			3800	388	3412		
NER	1st June 2020	00-02	1870	45	1825	0	1825		
		02-07	1870		1825		1825		
		07-12	1870		1825		1825		
		12-17	1870		1825		1825		
		17-18	1870		1825		1825		
		18-22	2040		1995		1995		
		22-23	1870		1825		1825		
		23-24	1870		1825		1825		
NER	2nd June 2020 to 3rd June 2020	00-02	1870	45	1825	0	1825	0	Revision in TTC/ATC due to planned outage of 400 kV Bongaigaon - Azara line
		02-07	1870		1825		1825	0	
		07-0730	1870		1825		1825	0	
		0730-12	1700		1655		1655	-170	
		12-17	1700		1655		1655	-170	
		17-18	1700		1655		1655	-170	
		18-22	1780		1735		1735	-260	
		22-23	1700		1655		1655	-170	
		23-24	1700		1655		1655	-170	
NER	4th June 2020 to 30th June 2020	00-02	1870	45	1825	0	1825		
		02-07	1870		1825		1825		
		07-12	1870		1825		1825		
		12-17	1870		1825		1825		
		17-18	1870		1825		1825		
		18-22	2040		1995		1995		
		22-23	1870		1825		1825		
		23-24	1870		1825		1825		
WR									
SR *	1st June 2020 to 30th June 2020	00-24	3700	400	3300	1150	2150		

* 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).

Real Time TTC/ATC revisions are uploaded on POSOCO/NLDC "News Update" (Flasher) Section

Limiting Constraints (Corridor wise)			Applicable Revisions	
Corridor	Constraint			
WR-NR	n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line		Rev- 0 to 1	
	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT		Rev- 2 to 4	
NR-ER	(n-1) contingency of 400 kV Saranath-Pusaui		Rev- 0 to 4	
ER-NR	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt.		Rev- 0 to 4	
	2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt.			
	3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.			
WR-SR and ER-SR	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt		Rev- 0 to 4	
	n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt			
	Low Voltage at Gazuwaka (East) Bus.			
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line		Rev- 0 to 3	
	b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)			
	a) N-1 contingency of 400 kV Bongaigaon - Byrnihat line		Rev- 4	
	b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)			
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line		Rev- 0 to 2, 4	
	b) High Loading in Meghalya Internal Power System			
	a) N-1 contingency of 400 kV Silchar- Azara line		Rev- 3	
	b) High Loading of 400 kV Silchar - Killing line			
W3 zone Injection	---		Rev- 0 to 4	
Limiting Constraints (Simultaneous)				
			Applicable Revisions	
NR	Import	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt.	Rev- 0 to 4	
		2. N-1 contingency of 400 kV Kahalgaon-Banka line will overload the other ckt.		
		3. N-1 contingency of 400kV MPL- Maithon line will overload the other ckt.		
		n-1 contingency of 765 kV Aligarh - Jhatikara Line will lead to overloading of 765 kV Aligarh - Gr. Noida Line	Rev- 0 to 1	
		N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT		Rev- 2 to 4
		(n-1) contingency of 400kV Zerd-Bhinmal and (n-1) contingency of 220kV Badod-Modak.		Rev- 0 to 4
(n-1) contingency of 400 kV Saranath-Pusaui				
	Import	a) N-1 contingency of 400 kV Bongaigaon - Azara line	Rev- 0 to 3	
		b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)		
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Byrnihat line	Rev- 4	
		b) High Loading of 220 kV Salakati-BTPS Double circuit (200 MW)		
	Export	a) N-1 contingency of 400 kV Silchar- Azara line	Rev- 0 to 2, 4	
		b) High Loading in Meghalya Internal Power System		
		a) N-1 contingency of 400 kV Silchar- Azara line	Rev- 3	
		b) High Loading of 400 kV Silchar - Killing line		
SR	Import	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 0 to 4	
		n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt		
		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	29th March 2020	Whole Month	1) Revision in STOA margin due to the following:- a) Operationalization of 50 MW LTA from AGEMPL (Wind, Bhuj) to Punjab b) Completion of 108 MW MTOA from SKS to NPCL (UP) 2) Revision in TTC/ATC due to change in inter-regional flow pattern towards NR.	WR-NR/NR Import
2	29th April 2020	Whole Month	Revision in TTC/ATC after after commissioning of 400 kV Aligarh (PG) - Prithala - Kadarapur - Sohna Road link and 765 kV Bikaner - Moga D/C	WR-NR/Import of NR
3	29th May 2020	Whole Month	Revision in STOA margin due to operationalization of MTOA from Rajasthan Solar to Maharashtra and MP	NR-WR/Export of NR
		1st June 2020 - 15th June 2020	a) Change in Load-Generation of NER b) Reconfiguration of 132 kV Pavoi- Sonabil S/C and 132 kV Sonabil - Gohpur S/C as 132 kV Pavoi - Gohpur 2nd line	ER-NER/NER-ER/Import and Export of NER
		1st June 2020 - 15th June 2020	Revision in TTC/ATC due to forced outage of 400/220 kV ICT-II at Jeypore	ER-SR/Import of SR
4	31st May 2020	2nd June 2020 to 3rd June 2020	Revision in TTC/ATC due to planned outage of 400 kV Bongaigaon - Azara line	ER-NER/NER-ER/Import and Export of NER

ASSUMPTIONS IN BASECASE					
				Month : June'2020	
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	10067	9726	5031	5107
2	Haryana	8695	8519	2953	2953
3	Rajasthan	11103	11509	7197	7197
4	Delhi	5675	6190	675	675
5	Uttar Pradesh	17079	15541	9239	9284
6	Uttarakhand	2148	1875	1185	1164
7	Himachal Pradesh	1519	1293	709	627
8	Jammu & Kashmir	2948	2295	1114	1113
9	Chandigarh	328	304	0	0
10	ISGS/PPs	25	25	21665	19179
	Total NR	59587	57276	49768	47299
II	EASTERN REGION				
1	Bihar	5009	4587	110	110
2	Jharkhand	1278	1057	425	421
3	Damodar Valley Corporation	3015	2593	5201	4318
4	Orissa	4039	4140	3508	2655
5	West Bengal	8514	7270	5621	5053
6	Sikkim	114	45	0	0
7	Bhutan	171	164	766	621
8	ISGS/PPs	-171	-164	12531	11066
	Total ER	21969	19691	28162	24243
III	WESTERN REGION				
1	Maharashtra	18737	16633	12295	11747
2	Gujarat	15902	12455	10497	8468
3	Madhya Pradesh	9628	7772	5051	3670
4	Chattisgarh	4024	3560	1908	2133
5	Daman and Diu	311	282	0	0
6	Dadra and Nagar Haveli	761	709	0	0
7	Goa-WR	524	498	0	0
8	ISGS/PPs	4774	3644	37337	31485
	Total WR	54661	45553	67088	57504

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	9605	6730	8327	6053
2	Telangana	7763	7848	4598	4644
3	Karnataka	9884	8330	7755	5857
4	Tamil Nadu	15780	13783	9577	8276
5	Kerala	3667	2269	1637	235
6	Pondy	314	265	0	0
7	Goa-SR	61	52	0	0
8	ISGS/IPPs	0	0	12710	12179
	Total SR	47074	39278	44605	37244
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	121	76	8	8
2	Assam	1774	1188	284	244
3	Manipur	179	82	0	0
4	Meghalaya	276	208	215	154
5	Mizoram	100	66	8	8
6	Nagaland	126	91	16	8
7	Tripura	245	149	75	75
8	ISGS/IPPs	153	82	2392	2083
	Total NER	2975	1943	2998	2580
	Total All India	186264	163742	192620	168870