

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

Issue Date: 28th March 2020

Issue Time: 1800 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 July 2020 to 31st July 2020	00-06	2500	500	2000	195	1805		
		06-18				250	1750		
		18-24				195	1805		
WR-NR*	1st July 2020 to 31st July 2020	00-06	16150	500	15650	10219	5431		
			15200**		14700**	9269**			
		06-18	16150	500	15650	10608	5042		
			15200**		14700**	9658**			
		18-24	16150	500	15650	10219	5431		
			15200**		14700**	9269**			
NR-ER*	1st July 2020 to 31st July 2020	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	303	1497		
		18-24	2000		1800	193	1607		
ER-NR*	1st July 2020 to 31st July 2020	00-24	5250	300	4950	4050	900		
W3-ER	1st July 2020 to 31st July 2020	00-24	No limit is being specified.						
ER-W3	1st July 2020 to 31st July 2020	00-24	No limit is being specified.						
WR-SR^	1st July 2020 to 31st July 2020	00-05	6950	500	6450	4035	2415		
		05-22	6950		6450		2415		
		22-24	6950		6450		2415		
SR-WR *	1st July 2020 to 31st July 2020	00-24	4600	400	4200	550	3650		
ER-SR^	1st July 2020 to 31st July 2020	00-06	5950	250	5700	2663	3037		
		06-18				2748	2952		
		18-24				2663	3037		
SR-ER *	1st July 2020 to 31st July 2020	00-24	No limit is being Specified.						
ER-NER*	1st July 2020 to 31st July 2020	00-02	1030	45	985	289	696		
		02-07	1030		985	289	696		
		07-12	1020		975	334	641		
		12-17	1050		1005	334	671		
		17-23	1010		965	289	676		
		23-24	1030		985	289	696		
		NER-ER*	1st July 2020 to 31st July 2020		00-02	2330	45		
02-07	2330			2285	2285				
07-12	2460			2415	2415				
12-17	2360			2315	2315				
17-23	2680			2635	2635				
23-24	2330			2285	2285				

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W3 zone Injection	1st July 2020 to 31st July 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.

SR-WR TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

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
NR*	1st July 2020 to 31st July 2020	00-06	21400 20450**	800	20600 19650**	14269 13319**	6331		
		06-09	21400 20450**		20600 19650**	14658 13708**	5942		
		09-17	21400 20450**		20600 19650**	14658 13708**	5942		
		17-18	21400 20450**		20600 19650**	14658 13708**	5942		
		18-24	21400 20450**		20600 19650**	14269 13319**	6331		
NER*	1st July 2020 to 31st July 2020	00-02	1030	45	985	289	696		
		02-07	1030		985	289	696		
		07-12	1020		975	334	641		
		12-17	1050		1005	334	671		
		17-23	1010		965	289	676		
		23-24	1030		985	289	696		
WR*									
SR**	1st July 2020 to 31st July 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.									

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 2020 to 31st July 2020	00-06	4500	700	3800	388	3412		
		06-18			3800	553	3247		
		18-24			3800	388	3412		
NER*	1st July 2020 to 31st July 2020	00-02	2330	45	2285	0	2285		
		02-07	2330		2285		2285		
		07-12	2460		2415		2415		
		12-17	2360		2315		2315		
		17-23	2680		2635		2635		
		23-24	2330		2285		2285		
WR*									
SR*^	1st July 2020 to 31st July 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

^SR Export TTC/ATC figures have been calculated considering 01 unit (800 MW) at Kudgi TPS in service. The figures are subject to change with change in generation at Kudgi TPS.

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
NR-ER	(n-1) contingency of 400 kV Saranath-Pusaui		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 one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt		Rev- 0
	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.		
SR-WR	a) N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt b) N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs		Rev- 0
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Samaguri-Sonabil S/C (200 MW)		Rev- 0
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line		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 overloading 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. (n-1) contingency of 400 kV Saranath-Pusaui	Rev- 0
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Samaguri-Sonabil S/C (200 MW)	Rev- 0
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of 400 kV Silchar-Killing Line	Rev- 0
SR	Import	n-1 contingency of one ckt of 765 kV Wardha - Nizamabad D/C will overload of the other ckt	Rev- 0
		n-1 contingency of one ckt of 765 kV Angul - Srikakulam D/C will overload of the other ckt	
	Export	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	

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

ASSUMPTIONS IN BASECASE					
				Month : July'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	10158	9912	4946	4947
2	Haryana	8510	9167	2425	2425
3	Rajasthan	12281	13388	8051	8180
4	Delhi	5951	6739	753	753
5	Uttar Pradesh	16973	14448	10329	10304
6	Uttarakhand	2214	1925	1196	1192
7	Himachal Pradesh	1550	1510	779	806
8	Jammu & Kashmir	3133	2314	1116	1129
9	Chandigarh	315	264	0	0
10	ISGS/PPs	24	24	21187	19976
	Total NR	61110	59692	50782	49712
II	EASTERN REGION				
1	Bihar	5150	4562	110	110
2	Jharkhand	1307	1043	425	421
3	Damodar Valley Corporation	3083	2560	5201	4318
4	Orissa	4698	4092	3508	2655
5	West Bengal	8664	7201	5661	5053
6	Sikkim	116	45	0	0
7	Bhutan	175	162	1329	1329
8	ISGS/PPs	-175	-162	12064	10518
	Total ER	23016	19502	28298	24403
III	WESTERN REGION				
1	Maharashtra	16977	13588	11289	8497
2	Gujarat	16098	13509	12160	9901
3	Madhya Pradesh	8247	6972	5176	3960
4	Chattisgarh	4320	3384	2446	2307
5	Daman and Diu	328	299	0	0
6	Dadra and Nagar Haveli	830	752	0	0
7	Goa-WR	517	414	0	0
8	ISGS/PPs	4729	3779	34703	30467
	Total WR	52047	42697	65775	55131

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	9486	6950	6310	5934
2	Telangana	8375	8532	4597	4597
3	Karnataka	9007	6934	6533	4207
4	Tamil Nadu	15575	13757	8669	7268
5	Kerala	3592	2238	1626	619
6	Pondy	303	256	0	0
7	Goa-SR	59	50	0	0
8	ISGS/IPPs	0	0	14970	12179
	Total SR	46398	38717	42705	34804
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	117	64	18	12
2	Assam	1633	1290	275	245
3	Manipur	181	87	0	0
4	Meghalaya	260	212	186	105
5	Mizoram	96	66	66	36
6	Nagaland	126	89	21	18
7	Tripura	242	154	79	79
8	ISGS/IPPs	155	82	2371	2278
	Total NER	2810	2045	3016	2773
	Total All India	185226	162571	190576	166824