

**National Load Despatch Centre
Total Transfer Capability for March 2021**

Issue Date: 02nd March 2021

Issue Time: 1100 hrs

Revision No. 10

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 March 2021 to 31st March 2021	00-06	2500	500	2000	195	1805		
		06-18				1281	719		
		18-24				195	1805		
WR-NR*	1st March 2021 to 2nd March 2021	00-06	17850	500	17350	10853	6497		
			16900**		16400**	9903**			
		06-18	17850	500	17350	11242	6108		
			16900**		16400**	10292**			
		18-24	17850	500	17350	10853	6497		
			16900**		16400**	9903**			
WR-NR*	3rd March 2021	00-06	17850	500	17350	10853	6497		
			16900**		16400**	9903**			
		06-08	17850	500	17350	11242	6108		
			16900**		16400**	10292**			
		08-18	15450	500	14950	11242	3708		
			14500**		14000**	10292**			
		18-24	15450	500	14950	10853	4097		
			14500**		14000**	9903**			
WR-NR*	4th March 2021	00-06	15450	500	14950	10853	4097		
			14500**		14000**	9903**			
		06-08	15450	500	14950	11242	3708		
			14500**		14000**	10292**			
		08-18	15450	500	14950	11242	3708		
			14500**		14000**	10292**			
		18-24	15450	500	14950	10853	4097		
			14500**		14000**	9903**			
WR-NR*	5th March 2021 to 31st March 2021	00-06	17850	500	17350	10853	6497		
			16900**		16400**	9903**			
		06-18	17850	500	17350	11242	6108		
			16900**		16400**	10292**			
		18-24	17850	500	17350	10853	6497		
			16900**		16400**	9903**			
NR-ER*	1st March 2021 to 31st March 2021	00-06	2000	200	1800	193	1607		
		06-18	2000		1800	603	1197		
		18-24	2000		1800	193	1607		
ER-NR*	1st March 2021 to 2nd March 2021	00-24	5500	300	5200	4280	920		

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ER-NR*	3rd March 2021	00-08	5500	300	5200	4280	920				
		08-24	5300	300	5000	4280	720				
ER-NR*	4th March 2021	00-24	5300	300	5000	4280	720				
ER-NR*	5th March 2021 to 31st March 2021	00-24	5500	300	5200	4280	920				
W3-ER	1st March 2021 to 31st March 2021	00-24	No limit is being specified.								
ER-W3	1st March 2021 to 31st March 2021	00-24	No limit is being specified.								
WR-SR [^]	1st March 2021 to 2nd March 2021	00-05	7500	500	7000	3531	3469		Revised TTC/ATC due to deferrment of s/d of 400kV Jeypore-Gazuwaka-1		
		05-22	7500		7000		3469				
		22-24	7500		7000		3469				
	3rd March 2021	00-07	7500	500	7000	3531	3469				
		07-22	7500		7000		3469	300			
		22-24	7500		7000		3469	300			
	4th March 2021 to 31st March 2021	00-05	8000	500	7500	3531	3969				
		05-22	8000		7500		3969				
		22-24	8000		7500		3969				
	SR-WR *	1st March 2021 to 31st March 2021	00-24	4600	400	4200	550	3650			
	ER-SR [^]	1st March 2021 to 2nd March 2021	00-06	4900	250	4650	2913	1737			
			06-18				2998	1652			
18-24			2913				1737				
3rd March 2021		00-06	250	4650	2913	1737		Revised TTC/ATC due to deferrment of s/d of 400kV Jeypore-Gazuwaka-1			
		06-07			4900	4650	2998		1652		
		07-18			4900	4650	2998		1652	350	
		18-24			4900	4650	2913		1737	350	
4th March 2021 to 31st March 2021		00-06	250	5900	5650	2913	2737				
		06-18				2998	2652				
		18-24				2913	2737				
SR-ER *		1st March 2021 to 31st March 2021	00-24	No limit is being Specified.							
ER-NER*		1st March 2021 to 31st March 2021	00-02	1260	45	1215	474		741		
	02-07		1260	1215		474	741				
	07-12		1260	1215		474	741				
	12-17		1260	1215		474	741				
	17-21		920	875		474	401				
	21-24		1260	1215		474	741				
	NER-ER*		1st March 2021 to 31st March 2021	00-02		3450	45	3405	83	3322	
02-07		3450		3405	83	3322					
07-12		3450		3405	83	3322					
12-17		3450		3405	83	3322					
17-21		3500		3455	83	3372					
21-24		3450		3405	83	3322					

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W3 zone Injection	1st March 2021 to 31st March 2021	00-24	No limit is being specified (In case of any constraints appearing in the system, W3 zone export would be revised accordingly)						
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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) KWPC, 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.

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 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 March 2021 to 2nd March 2021	00-06	23350	800	22550	15133	7417		
			22400**		21600**	14183**			
		06-09	23350		22550	15522	7028		
			22400**		21600**	14572**			
		09-17	23350		22550	15522	7028		
22400**	21600**		14572**						
17-18	23350	22550	15522	7028					
18-24	23350	22550	15133	7417					
	22400**	21600**	14183**						
NR*	3rd March 2021	00-06	23350	800	22550	15133	7417		
			22400**		21600**	14183**			
		06-08	23350		22550	15522	7028		
			22400**		21600**	14572**			
		08-09	20750		19950	15522	4428		
19800**	19000**		14572**						
09-17	20750	19950	15522	4428					
	19800**	19000**	14572**						
17-18	20750	19950	15522	4428					
	19800**	19000**	14572**						
18-24	20750	19950	15133	4817					
	19800**	19000**	14183**						

NR*	4th March 2021	00-06	20750 19800**	800	19950 19000**	15133 14183**	4817		
		06-09	20750 19800**		19950 19000**	15522 14572**	4428		
		09-17	20750 19800**		19950 19000**	15522 14572**	4428		
		17-18	20750 19800**		19950 19000**	15522 14572**	4428		
		18-24	20750 19800**		19950 19000**	15133 14183**	4428		
NR*	5th March 2021 to 31st March 2021	00-06	23350 22400**	800	22550 21600**	15133 14183**	7417		
		06-09	23350 22400**		22550 21600**	15522 14572**	7028		
		09-17	23350 22400**		22550 21600**	15522 14572**	7028		
		17-18	23350 22400**		22550 21600**	15522 14572**	7028		
		18-24	23350 22400**		22550 21600**	15133 14183**	7417		
NER*	1st March 2021 to 31st March 2021	00-02	1260	45	1215	474	741		
		02-07	1260		1215	474	741		
		07-12	1260		1215	474	741		
		12-17	1260		1215	474	741		
		17-21	920		875	474	401		
		21-24	1260		1215	474	741		
WR*									
SR*#	1st March 2021 to 2nd March 2021	00-06	12400	750	11650	6443	5207		
		06-18	12400		11650	6528	5122		
		18-24	12400		11650	6443	5207		
SR*#	3rd March 2021	00-06	12400	750	11650	6443	5207		Revised TTC/ATC due to deferrment of s/d of 400kV Jeypore-Gazuwaka-1
		06-07	12400		11650	6528	5122		
		07-18	12400		11650	6528	5122	650	
		18-24	12400		11650	6443	5207	650	
SR*#	4th March 2021 to 31st March 2021	00-06	13900	750	13150	6443	6707		
		06-18	13900		13150	6528	6622		
		18-24	13900		13150	6443	6707		

* 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 - Vindhyaachal 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 March 2021 to 31st March 2021	00-06	4500	700	3800	388	3412		
		06-18			3800	1884	1916		
		18-24	4500		3800	388	3412		
NER*	1st March 2021 to 31st March 2021	00-02	3450	45	3405	83	3322		
		02-07	3450		3405	83	3322		
		07-12	3450		3405	83	3322		
		12-17	3450		3405	83	3322		
		17-21	3500		3455	83	3372		
		21-24	3450		3405	83	3322		
WR*									
SR*^	1st March 2021 to 31st March 2021	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 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT		Rev- 0 to 10
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 10
ER-NR	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. Inter-regional flow pattern towards NR		Rev- 0 to 10
WR-SR and ER-SR	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT		Rev- 0 to 10
	N-1 of one ckt of 765kV Angul-Srikakula D/C will overload the other ckt		Rev- 0 to 10
	Low Voltage at Gazuwaka (East) Bus.		Rev- 0 to 10
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 to 10
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C		Rev- 0 to 10
NER-ER	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of Internal System of Meghalaya		Rev- 0 to 10
W3 zone Injection	---		Rev- 0 to 10
Limiting Constraints (Simultaneous)			Applicable Revisions
NR	Import	1. N-1 contingency of 400 kV Mejia-Maithon A line will overload the other ckt. 2. Inter-regional flow pattern towards NR	Rev- 0 to 10
		N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 10
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	Rev- 0 to 10
	Export	a) N-1 contingency of 400 kV Silchar- Azara line b) High Loading of Internal System of Meghalaya	Rev- 0 to 10
		N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0 to 6
SR	Import	N-1 of one ckt of 765kV Angul-Srikakula D/C will overload the other ckt	Rev- 7 to 10
		Low Voltage at Gazuwaka (East) Bus	
	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	Rev- 0 to 10

National Load Despatch Centre
Total Transfer Capability for March 2021

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th Dec 2020	Whole Month	a) Revision in STOA margin due to change in LTA Quantum from RWE_APL2_SECI-III (Ghadsisa, Wind) to Haryana from earlier 95 MW to 160 MW.	WR-NR/Import of NR
			b) Revision in TTC/ATC due to change in direction of HVDC BNC-AGRA as per grid requirement	
2	28th Jan 2021	Whole Month	• LTA figure revised by 41.5 MW after declaration of commercial operation of Kameng HEP (4x150MW) unit-3 w.e.f 00:00Hrs of 22.01.2021	NER-ER/NER Export
3	04th Feb 2021	Whole Month	Operationalization of LTA granted to M/s Adani Wind Energy Kutchh Three Limited :-	WR-NR/NR IMPORT
			a) 39.1 MW to UPPCL b) 18.4 MW to Chandigarh	
			c) 34.5 MW to KSEB	WR-SR/SR IMPORT
4	09th Feb 2021	Whole Month	Operationalization of LTA granted to M/s Alfanar Energy Private Limited on available margins at Bhuj PS :- a) 14.4 to BSES Rajdhani Power Limited , Delhi b) 4.7 to BSES Yamuna Power Limited , Delhi c) 4.7 to TATA Power Delhi Distribuion Limited	WR-NR/NR IMPORT
5	12th Feb 2021	Whole Month	Revised due to operationalisation of 300MW MTOA granted form Azure Solar Power ,Rajashtan to Odisha	NR-ER/ NR Export
			Revised due to revised LTA granted for transfer of power from Nabinagar-1	ER-NR/ NR Import
6	27th Feb 2021	Whole Month	Revised STOA margin due to operationalisation of 99 MW LTA from Chuzachen HEP to Haryana	ER-NR
			Revised STOA margin due to change in LTA allocation of RPL-SECI-II-RE, ALFANAR_SECI-III and RWE_APL2_SECI-III(Ghadsisa)	WR-NR
			Revised STOA margin due to change in LTA allocations.	WR-SR, ER-SR/ SR Import
			Revised TTC/ATC due to - 1) Change in Load-Generation of NER 2) Addition of 4th unit (1x150 MW) of 4 x 150 MW Kameng Generation 3) Commissioning of 400 kV SM Nagar (ISTS) - PK Bari (ISTS) D/C 4) Commissioning of 400 kV Silchar - Misa D/C	NER Import /NER Export
7	27th Feb 2021	1st Mar 2021	Revised TTC/ATC due to continuous shutdown of HVDC Bhadrawati pole-1 and outage of HVDC Talcher-Kolar pole-1	WR-SR/ER-SR/SR Import
8	28th Feb 2021	2nd Mar 2021	Revised TTC/ATC due to continuous shutdown of HVDC Bhadrawati pole-1 and outage of HVDC Talcher-Kolar pole-2	WR-SR/ER-SR/SR Import
9	01st Mar 2021	3rd Mar 2021 to 4th Mar 2021	TTC/ATC revised due to S/D 800 KV HVDC KURUKSHETRA(PG) POLE-1 & 2	WR-NR,ER-NR/ NR Import
		3rd Mar 2021	Revised TTC/ATC due to continuous shutdown of HVDC Bhadrawati pole-1 , outage of HVDC Talcher-Kolar pole-1 and approved s/d of 400kV Jeypore-Gazuwaka-1	WR-SR/ER-SR/SR Import
10	02nd Mar 2021	03rd Mar 2021	Revised TTC/ATC due to deferrment of s/d of 400kV Jeypore-Gazuwaka-1	WR-SR/ER-SR/SR Import

ASSUMPTIONS IN BASECASE					
				Month : March 2021	
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	7082	5944	3303	3219
2	Haryana	6885	6321	1819	1819
3	Rajasthan	11247	11020	7767	7739
4	Delhi	5022	3487	672	672
5	Uttar Pradesh	14329	15067	8642	8612
6	Uttarakhand	1773	1733	886	604
7	Himachal Pradesh	1015	861	190	139
8	Jammu & Kashmir	1494	1461	109	109
9	Chandigarh	251	159	0	0
10	ISGS/IPPs	19	19	14286	11153
	Total NR	49117	46071	37675	34067
II	EASTERN REGION				
1	Bihar	4849	3097	352	344
2	Jharkhand	1502	1034	378	353
3	Damodar Valley Corporation	2755	2556	4353	3476
4	Orissa	3582	2895	2946	2400
5	West Bengal	6439	4457	4879	3510
6	Sikkim	112	45	0	0
7	Bhutan	162	168	270	214
8	ISGS/IPPs	-162	-168	12566	8973
	Total ER	19239	14083	25743	19269
III	WESTERN REGION				
1	Maharashtra	18778	13739	12230	9486
2	Gujarat	15979	11721	11083	7999
3	Madhya Pradesh	15354	7101	7911	4031
4	Chattisgarh	4046	2689	2384	1953
5	Daman and Diu	339	292	0	0
6	Dadra and Nagar Haveli	814	774	0	0
7	Goa-WR	625	390	0	0
8	ISGS/IPPs	4017	3424	41810	30230
	Total WR	59952	40130	75417	53699

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	9090	5024	6476	5986
2	Telangana	9542	10582	4884	4648
3	Karnataka	10315	5023	8110	3639
4	Tamil Nadu	14023	10332	6537	5162
5	Kerala	3838	2287	1665	95
6	Pondy	303	309	0	0
7	Goa-SR	47	48	0	0
8	ISGS/PPs	0	0	13941	10412
	Total SR	47158	33605	41613	29942
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	105	66	12	8
2	Assam	1192	861	288	243
3	Manipur	224	109	0	0
4	Meghalaya	322	266	230	189
5	Mizoram	117	67	48	28
6	Nagaland	121	94	8	8
7	Tripura	225	135	75	75
8	ISGS/PPs	139	85	2580	2126
	Total NER	2444	1683	3241	2676
	Total All India	177771	135487	183689	139653