

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

Issue Date: 30th July, 2021

Issue Time: 17:00 hrs

Revision No. 7

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 2021 to 31st August 2021	00-06	2500	500	2000	378	1622				
		06-18				1206	794				
		18-24				378	1622				
WR-NR*	1st August 2021 to 31st August 2021	00-06	18450 17500**	1000	17450 16500**	11267 10317**	6183				
		06-18	18450 17500**	1000	17450 16500**	11656 10706**	5794				
		18-24	18450 17500**	1000	17450 16500**	11267 10317**	6183				
NR-ER*	1st August 2021 to 31st August 2021	00-06	2000	200	1800	193	1607				
		06-18				1800	603	1197			
		18-24				1800	193	1607			
ER-NR*	1st August 2021 to 31st August 2021	00-24	6850	400	6450	4280	2170				
W3-ER	1st August 2021 to 31st August 2021	00-24	No limit is being specified.								
ER-W3	1st August 2021 to 31st August 2021	00-24	No limit is being specified.								
WR-SR <sup>^</sup>	1st August 2021 to 31st August 2021	00-05	9350	650	8700	3596	5104				
		05-22					8700	5104			
		22-24					8700	5104			
SR-WR*	1st August 2021 to 31st August 2021	00-09	6000	400	5600	845	4755				
		09-16					4700	3855			
		16-24					5600	4755			
ER-SR <sup>^</sup>	1st August 2021 to 31st August 2021	00-06	5750	350	5400	2672	2728				
		06-18				2757	2643				
		18-24				2672	2728				
SR-ER*	1st August 2021 to 31st August 2021	00-24	No limit is being Specified.								
ER-NER*	1st August 2021 to 31st August 2021	00-02	1650	45	1605	474	631	825	Revised TTC/ATC due to Change in Load-Generation of NER		
		02-07					1605	631		825	
		07-12					1605	631		825	
		12-18					1605	631		825	
		18-22					1400	381		800	
		22-24					1605	631		825	
NER-ER*	1st August 2021 to 31st August 2021	00-02	2970	45	2925	83	3342	-290	Revised TTC/ATC due to Change in Load-Generation of NER		
		02-07					2925	83		3342	-290
		07-12					2925	83		3342	-230
		12-18					2925	83		3342	-280
		18-22					2860	83		3232	-330
		22-24					2970	83		3342	-290

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<b>W3 zone Injection</b>	1st August 2021 to 31st August 2021	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 Raikhed, 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.

ER-NER TTC has been increased by 500MW after reversal of HVDC BNC-APD-Agra to avoid violation in ER-NER corridor due to BNC-Agra power direction from BNC to Agra. 500MW again subtracted along with LTA/MTOA from ATC to keep STOA margin unchanged in ER-NER/NER Import.

NER-ER TTC has been decreased by 500MW after reversal of HVDC BNC-APD-Agra and 500MW again added after subtracting LTA/MTOA from ATC to keep STOA margin unchanged in NER-ER/NER export.

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 August 2021 to 31st August 2021	00-06	25300 24350**	1400	23900 22950**	15547 14597**	8353		
		06-09	25300 24350**		23900 22950**	15936 14986**	7964		
		09-17	25300 24350**		23900 22950**	15936 14986**	7964		
		17-18	25300 24350**		23900 22950**	15936 14986**	7964		
		18-24	25300 24350**		23900 22950**	15547 14597**	8353		
NER*	1st August 2021 to 31st August 2021	00-02	1150	45	1105	474	631	325	Revised TTC/ATC due to Change in Load-Generation of NER
		02-07	1150		1105	474	631	325	
		07-12	1150		1105	474	631	325	
		12-18	1150		1105	474	631	325	
		18-22	900		855	474	381	300	
		22-24	1150		1105	474	631	325	
WR*									
SR#	1st August 2021 to 31st August 2021	00-06	15100	1000	14100	6270	7830		
		06-18	15100		14100	6355	7745		
		18-24	15100		14100	6270	7830		
* 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 August 2021 to 31st August 2021	00-06	4500	700	3800	571	3229		
		06-18				1809	1991		
		18-24				571	3229		
NER*	1st August 2021 to 31st August 2021	00-02	3470	45	3425	83	3342	210	Revised TTC/ATC due to Change in Load-Generation of NER
		02-07	3470		3425	83	3342	210	
		07-12	3470		3425	83	3342	270	
		12-18	3470		3425	83	3342	220	
		18-22	3360		3315	83	3232	170	
		22-24	3470		3425	83	3342	210	
WR*									
SR^A	1st August 2021 to 31st August 2021	00-09	5500	400	5100	1564	3536		
		09-16	4600	400	4200	1564	2636		
		16-24	5500	400	5100	1564	3536		

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.

<b>Limiting Constraints (Corridor wise)</b>		<b>Applicable Revisions</b>	
<b>Corridor</b>	<b>Constraint</b>		
<b>WR-NR</b>	N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	Rev- 0 to 1	
	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 2 to 7	
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 7	
<b>ER-NR</b>	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 1	
	Inter-regional flow pattern towards NR	Rev- 2 to 7	
<b>WR-SR and ER-SR</b>	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0 to 7	
	N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit		
	Low Voltage at Gazuwaka (East) Bus.		
<b>SR-WR</b>	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 4	
<b>SR-WR</b>	a) N-1 of Pune Kharghar would overload 400 kV Pune-Kalwa. b) Overloading of Kolhapur (PG)-Kolhapur (MS) under outage of other circuit & overloading of 400/220 kV NSPCL ICT under outage of the other ICT.	Rev- 5 to 7	
<b>ER-NER</b>	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	Rev- 0 to 7	
<b>NER-ER</b>	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 7	
<b>W3 zone Injection</b>	---	Rev- 0 to 7	
<b>Limiting Constraints (Simultaneous)</b>		<b>Applicable Revisions</b>	
<b>NR</b>	<b>Import</b>	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 1
		Inter-regional flow pattern towards NR	Rev- 2 to 7
		N-1 contingency of 1500 MVA, 765/400 kV ICT at Agra will overload the other ICT	Rev- 0 to 1
	<b>Export</b>	N-1 contingency of 1000 MVA, 765/400 kV ICT at Orai will overload the other ICT	Rev- 2 to 7
		(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 7
		(n-1) contingency of 400 kV Saranath-Pusauli	
<b>NER</b>	<b>Import</b>	a) N-1 contingency of 400 kV Bongaigaon - Azara line b) High Loading of 220 kV Salakati - BTPS D/C	Rev- 0 to 7
	<b>Export</b>	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 7
<b>SR</b>	<b>Import</b>	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0 to 7
		N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit	
		Low Voltage at Gazuwaka (East) Bus	
	<b>Export</b>	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt	Rev- 0 to 4
		N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	
	<b>Export</b>	a) N-1 of Pune Kharghar would overload 400 kV Pune-Kalwa. b) Overloading of Kolhapur (PG)-Kolhapur (MS) under outage of other circuit & overloading of 400/220 kV NSPCL ICT under outage of the other ICT.	Rev- 5 to 7

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th May 2021	Whole month	1) Revised STOA margin due to increase in LTA allocations by 13 MW (77 MW to 90 MW) from AWEK1L to UPPCL.	WR-NR/NR Import
			2) Revised STOA margin due to LTA allocations of 13 MW from AWEK1L to Chandigarh.	
			4) Revised STOA margin due to decrease in LTA allocation by 38 MW (100 MW to 62 MW) from BETAM to UP (NR).	SR-WR/SR Export
2	4th June 2021	Whole month	a) Reversal in HVDC APD-Agra flow	WR-NR, ER-NR & NR Import
			b) Commissioning of 765kV Ajmer-Phagi D/C and 765kV G.Noida-Fatehabad S/C	
3	28th June 2021	Whole month	a) Revised STOA margin due to decrease in LTA allocations by 5 MW (90 MW to 85 MW) from AWEK1L to UPPCL	WR-NR/NR Import
			b) Revised STOA margin due to increase in LTA allocations by 21 MW (19 MW to 40 MW) from AWEK1L to Chandigarh	
			Revised STOA margin due to increase in LTA allocations by 10 MW (65 MW to 75 MW) from AWEKTL-WR to KSEB	WR-SR/ SR Import
			Revised STOA margin due to increase in LTA allocation by 4 MW (62 MW to 68 MW) from BETAM to UP (NR)	SR-WR
			Revised STOA margin due to increase in LTA allocation from BETAM to UP (NR) & Odisha each by 4 MW (62 MW to 8MW)	SR Export
4	17th July 2021	Whole month	Revised Reliability Margin (TRM) considering 2% of the total anticipated peak demand met in MW in NR Import	WR-NR, ER-NR & NR Import
5	19th July 2021	Whole month	Revised TTC/ATC due to change in LGBR of WR and outage of all units of Kudgi.	SR-WR/SR Export
6	28th July 2021	Whole month	Revised STOA margin due to -	NR-WR/ NR Export
			a) Increase in LTA from Rihand to MP by 4.5MW (from 45 MW to 49.5 MW)	
			b) Increase in LTA from Matalia to MP by 40 MW (from 10 MW to 50 MW)	
			c) Decrease in LTA from Rajasthan solar to MP by 5 MW (from 10 MW to 5 MW)	
			d) Increase in LTA from Rajasthan solar to Chattisgarh by 5 MW (from 5 MW to 10 MW)	
			e) ARERJL MTOA of 200 MW to Maharashtra has ended	
			f) NR ISGS allocation to Gujrat increased from 58 MW to 80 MW	
			Revised STOA margin due to -	WR-NR/NR Import
			a) Increase in LTA from RWE_APL2_SECI-III(Ghadsisa) to Haryana by 22 MW (from 241 MW to 263 MW)	
			b) LTA of 228 MW from PGLR_SREPL to UPPCL (SR-WR-NR)	
			c) LTA of 6.9 MW from Rajghat, MP to UPPCL	WR-SR/ SR Import
Revised STOA as unallocated power of 300 MW from NTPC-WR to Karnataka revised to 0 MW				
Revised STOA margin due to LTA of 228 MW from PGLR_SREPL to UPPCL (SR-WR-NR)	SR-WR/SR Export			
7	30th July 2021	1st August 2021 to 31st August 2021	Revised TTC/ATC due to Change in Load-Generation of NER	NER Import/ NER Export

ASSUMPTIONS IN BASECASE					
				Month : August 2021	
S.No.	Name of State/Area	Load		Generation	
		Peak Load (MW)	Off Peak Load (MW)	Peak (MW)	Off Peak (MW)
I	<b>NORTHERN REGION</b>				
1	Punjab	10744	10867	3971	3971
2	Haryana	9492	9088	2701	2701
3	Rajasthan	10485	9635	8259	8259
4	Delhi	5321	5152	796	795
5	Uttar Pradesh	20631	20099	10623	10689
6	Uttarakhand	2124	1886	928	939
7	Himachal Pradesh	1354	1114	783	769
8	Jammu & Kashmir	2363	1962	884	883
9	Chandigarh	313	249	0	0
10	ISGS/PPs	48	48	21958	20013
	<b>Total NR</b>	<b>62875</b>	<b>60100</b>	<b>50903</b>	<b>49019</b>
II	<b>EASTERN REGION</b>				
1	Bihar	6537	5617	356	349
2	Jharkhand	1958	1503	511	501
3	Damodar Valley Corporation	2985	2723	5856	4190
4	Orissa	4513	4310	3998	3798
5	West Bengal	9704	8401	7033	6210
6	Sikkim	119	116	0	0
7	Bhutan	181	181	2325	2325
8	ISGS/PPs	810	810	15771	11533
	<b>Total ER</b>	<b>26808</b>	<b>23662</b>	<b>35850</b>	<b>28906</b>
III	<b>WESTERN REGION</b>				
1	Maharashtra	17405	16509	11624	10789
2	Gujarat	13918	11320	8601	7246
3	Madhya Pradesh	9254	8534	3596	3845
4	Chattisgarh	4309	3965	2531	2835
5	Daman and Diu	276	236	0	0
6	Dadra and Nagar Haveli	744	870	0	0
7	Goa-WR	534	420	0	0
8	ISGS/PPs	1784	3263	36712	32338
	<b>Total WR</b>	<b>48224</b>	<b>45117</b>	<b>63064</b>	<b>57053</b>

IV	SOUTHERN REGION				
1	Andhra Pradesh	8024	7220	6268	5204
2	Telangana	9100	8117	5196	5078
3	Karnataka	8396	6654	6023	4850
4	Tamil Nadu	15210	13068	7256	6376
5	Kerala	3778	2349	1614	961
6	Pondy	264	264	0	0
7	Goa-SR	82	82	0	0
8	ISGS/IPPs	37	37	14805	14794
	Total SR	44891	37791	41162	37263
V	NORTH-EASTERN REGION				
1	Arunachal Pradesh	140	95	118	118
2	Assam	1849	1588	615	574
3	Manipur	207	86	105	103
4	Meghalaya	315	255	302	229
5	Mizoram	150	55	60	60
6	Nagaland	173	155	96	93
7	Tripura	435	260	300	300
8	ISGS/IPPs	0	0	2371	2370
	Total NER	3269	2494	3967	3847
	Total All India	186067	169164	194946	176088