

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

Issue Date: 25th September, 2021

Issue Time: 1700 hrs

Revision No. 1

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 December 2021 to 31st December 2021	00-06	2500	500	2000	378	1622		
		06-18				1206	794		
		18-24				378	1622		
WR-NR*	1st December 2021 to 31st December 2021	00-06	19500 18550**	1000	18500 17550**	11279 10329**	7221		
		06-18	19500 18550**	1000	18500 17550**	11668 10718**	6832		
		18-24	19500 18550**	1000	18500 17550**	11279 10329**	7221		
NR-ER*	1st December 2021 to 31st December 2021	00-06	2000	200	1800	93	1707		
		06-18				1800	908	892	
		18-24				1800	93	1707	
ER-NR*	1st December 2021 to 31st December 2021	00-24	5900	400	5500	4372	1128		
W3-ER	1st December 2021 to 31st December 2021	00-24	No limit is being specified.						
ER-W3	1st December 2021 to 31st December 2021	00-24	No limit is being specified.						
WR-SR <sup>^</sup>	1st December 2021 to 31st December 2021	00-05	10350	650	9700	3596	6104	1000	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3
		05-22					9700	1000	
		22-24					9700	1000	
SR-WR *	1st December 2021 to 31st December 2021	00-24	4600	400	4200	857	3343		
ER-SR <sup>^</sup>	1st December 2021 to 31st December 2021	00-06	5800	350	5450	2672	2778	50	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3
		06-18				2757	2693	50	
		18-24				2672	2778	50	
SR-ER *	1st December 2021 to 31st December 2021	00-24	No limit is being Specified.						
ER-NER*	1st December 2021 to 31st December 2021	00-02	810	45	765	455	310		
		02-07	810		765	455	310		
		07-12	805		760	455	305		
		12-18	820		775	455	320		
		18-22	610		565	455	110		
		22-24	810		765	455	310		
NER-ER*	1st December 2021 to 31st December 2021	00-02	3280	45	3235	131	3104		
		02-07	3280		3235	131	3104		
		07-12	3230		3185	131	3054		
		12-18	3270		3225	131	3094		
		18-22	3240		3195	131	3064		
		22-24	3280		3235	131	3104		

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<b>W3 zone Injection</b>	1st December 2021 to 31st December 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 Vidut 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.

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 December 2021 to 31st December 2021	00-06	25400	1400	24000	15651	8349			
			24450**		23050**	14701**				
		06-09	25400		24000	16040	7960			
			24450**		23050**	15090**				
		09-17	25400		24000	16040	7960			
			24450**		23050**	15090**				
17-18	25400	24000	16040	7960						
	24450**	23050**	15090**							
18-24	25400	24000	15651	8349						
	24450**	23050**	14701**							
NER*	1st December 2021 to 31st December 2021	00-02	810	45	765	455	310			
			02-07		810	765	455			310
			07-12		805	760	455			305
			12-18		820	775	455			320
			18-22		610	565	455			110
			22-24		810	765	455			310
WR*										
SR**	1st December 2021 to 31st December 2021	00-06	16150	1000	15150	6270	8880	1050	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3	
		06-18	16150		15150	6355	8795	1050		
		18-24	16150		15150	6270	8880	1050		
* 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 - Vindhychal 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 December 2021 to 31st December 2021	00-06	4500	700	3800	471	3329		
		06-18				2114	1686		
		18-24				471	3329		
NER*	1st December 2021 to 31st December 2021	00-02	3280	45	3235	131	3104		
		02-07	3280			131	3104		
		07-12	3230			131	3054		
		12-18	3270			131	3094		
		18-22	3240			131	3064		
		22-24	3280			131	3104		
WR*									
SR^A	1st December 2021 to 31st December 2021	00-24	3700	400	3300	1586	1714		

\* 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.

<b>Limiting Constraints (Corridor wise)</b>			<b>Applicable Revisions</b>
<b>Corridor</b>	<b>Constraint</b>		
<b>WR-NR</b>	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit		Rev- 0 to 1
<b>NR-ER</b>	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 1
<b>ER-NR</b>	Inter-regional flow pattern towards NR		Rev- 0 to 1
<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
	N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit		
	Low Voltage at Gazuwaka (East) Bus.		Rev- 1
	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT		
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 1
<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 1
<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 1
<b>W3 zone Injection</b>	---		Rev- 0 to 1
<b>Limiting Constraints (Simultaneous)</b>			<b>Applicable Revisions</b>
<b>NR</b>	<b>Import</b>	Inter-regional flow pattern towards NR	Rev- 0 to 1
	<b>Export</b>	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 0 to 1
<b>NER</b>	<b>Import</b>	(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 1
	<b>Export</b>	a) N-1 contingency of 400 kV Bongaigaon - Killing line (0000 hrs to 2400 hrs) b) High Loading of 220 kV Balipara-Sonabil (0000 hrs to 0700 hrs) c) High Loading of 220 kV Salakati - BTPS D/C (0700 hrs to 1200 hrs)	Rev- 0 to 1
<b>SR</b>	<b>Import</b>	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II	Rev- 0 to 1
		b) High Loading of 220 kV Salakati - Alipurduar II or I	
	<b>Export</b>	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0
		N-1 of one ckt of 765kV Angul-Srikakulam D/C will overload the other circuit	
<b>Import</b>	Low Voltage at Gazuwaka (East) Bus	Rev- 1	
	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT		
<b>Export</b>	Low Voltage at Gazuwaka (East) Bus	Rev- 0 to 1	
	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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**Total Transfer Capability for December 2021**

<b>Revision No</b>	<b>Date of Revision</b>	<b>Period of Revision</b>	<b>Reason for Revision/Comment</b>	<b>Corridor Affected</b>
1	25th September 2021	Whole Month	TTC/ATC revised due to commissioning of HVDC Raigarh-Pugalur Pole-3	WR-SR/ER-SR/SR Import

ASSUMPTIONS IN BASECASE					
				Month : November 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	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/IPPs	48	48	21958	20013
	Total NR	62875	60100	50903	49019
II	EASTERN REGION				
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/IPPs	810	810	15771	11533
	Total ER	26808	23662	35850	28906
III	WESTERN REGION				
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/IPPs	1784	3263	36712	32338
	Total WR	48224	45117	63064	57053

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