

**National Load Despatch Centre
Total Transfer Capability for January 2022**

Issue Date: 4th January, 2022

Issue Time: 1700 hrs

Revision No. 8

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 January 2022 to 31st January 2022	00-06	2500	500	2000	628	1372						
		06-18				1856	144						
		18-24				628	1372						
WR-NR*	1st January 2022 to 31st January 2022	00-06	19500 18550**	1000	18500 17550**	11433 10483**	7067						
		06-18	17800 16850**	1000	16800 15850**	11822 10872*	4978						
		18-21	17800 16850**	1000	16800 15850**	11433 10483**	5367						
		21-24	19500 18550**	1000	18500 17550**	11433 10483**	7067						
NR-ER*	1st January 2022 to 31st January 2022	00-06	2000	200	1800	93	1707						
		06-18				1800	1308	492					
		18-24				1800	93	1707					
ER-NR*	1st January 2022 to 31st January 2022	00-06	5900	400	5500	4356	1144						
		06-21						7600		400	7200	4356	2844
		21-24						5900		400	5500	4356	1144
W3-ER	1st January 2022 to 31st January 2022	00-24	No limit is being specified.										
ER-W3	1st January 2022 to 31st January 2022	00-24	No limit is being specified.										
WR-SR^	1st January 2022	00-05	10000	650	9350	4118	5232						
		05-22					10000	5232					
		22-24					10000	9350		5232			
WR-SR^	2nd January 2022 to 5th January 2022	00-05	10000	650	9350	4118	5232						
		05-22					10000	9350		5232			
		22-24					10000	9350		5232			
WR-SR^	6th January 2022	00-05	11250	650	10600	4118	6482	-350	Due to extension of Shutdown of 765KV-WARDHA-AURANGABAD-1 & 2				
		05-22					11250			10600	6482		
		22-24					11250			10600	6482		
WR-SR^	7th January 2022 to 31st January 2022	00-05	11600	650	10950	4118	6832						
		05-22					11600	10950		6832			
		22-24					11600	10950		6832			
SR-WR*	1st January 2022 to 5th January 2022	00-24	6600	400	6200	934	5266						
SR-WR*	6th January 2022 to 31st January 2022	00-24	7400	400	7000	934	6066						
ER-SR^	1st January 2022	00-06	5750	350	5400	2675	2725						
		06-18				2760	2640						
		18-24				2675	2725						
ER-SR^	2nd January 2022 to 5th January 2022	00-06	5750	350	5400	2675	2725						
		06-18				2760	2640						
		18-24				2675	2725						
ER-SR^	6th January 2022	00-06	5650	350	5300	2675	2625	-50	Due to extension of Shutdown of 765KV-WARDHA-AURANGABAD-1 & 2				
		06-18				2760	2540						
		18-24				2675	2625						
ER-SR^	7th January 2022 to 31st January 2022	00-06	5700	350	5350	2675	2675						
		06-18				2760	2590						
		18-24				2675	2675						
SR-ER*	1st January 2022 to 31st January 2022	00-24	No limit is being Specified.										

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ER-NER*	1st January 2022 to 31st January 2022	00-02	1850	60	1790	455	1335		
		02-07	1850		1790	455	1335		
		07-12	1850		1790	455	1335		
		12-17	1850		1790	455	1335		
		17-21	1700		1640	455	1185		
		21-24	1850		1790	455	1335		
NER-ER*	1st January 2022 to 31st January 2022	00-02	2450	60	2390	81	2309		
		02-07	2450		2390	81	2309		
		07-12	2450		2390	81	2309		
		12-17	2450		2390	81	2309		
		17-21	2250		2190	81	2109		
		21-24	2450		2390	81	2309		

W3 zone Injection	1st January 2022 to 31st January 2022	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) 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.

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 January 2022 to 31st January 2022	00-06	25400	1400	24000	15789	8211		
			24450**		23050**	14839**			
		06-09	25400		24000	16178	7822		
			24450**		23050**	15228**			
		09-17	25400		24000	16178	7822		
			24450**		23050**	15228**			
17-18	25400	24000	16178	7822					
	24450**	23050**	15228**						
18-24	25400	24000	15789	8211					
	24450**	23050**	14839**						
NER*	1st January 2022 to 31st January 2022	00-02	1350	60	1290	455	835		
			02-07		1350	1290			
		07-12	1350		1290	455	835		
			12-17		1350	1290			
		17-21	1200		1140	455	685		
			21-24		1350	1290			
WR*									
SR*#	1st January 2022	00-06	15750	1000	14750	6793	7957		
		06-18	15750		14750	6878	7872		
		18-24	15750		14750	6793	7957		
SR*#	2nd January 2022 to 5th January 2022	00-06	15750	1000	14750	6793	7957		
		06-18	15750		14750	6878	7872		
		18-24	15750		14750	6793	7957		
SR*#	6th January 2022	00-06	16900	1000	15900	6793	9107	-400	Due to extension of Shutdown of 765KV- WARDHA-AURANGABAD-1 & 2
		06-18	16900		15900	6878	9022		
		18-24	16900		15900	6793	9107		
SR*#	7th January 2022 to 31st January 2022	00-06	17300	1000	16300	6793	9507		
		06-18	17300		16300	6878	9422		
		18-24	17300		16300	6793	9507		

* 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 January 2022 to 31st January 2022	00-06	4500	700	3800	721	3079		
		06-18				3164	636		
		18-24				721	3079		
NER*	1st January 2022 to 31st January 2022	00-02	2950	60	2890	81	2809		
		02-07	2950			81	2809		
		07-12	2950			81	2809		
		12-17	2950			81	2809		
		17-21	2750			81	2609		
		21-24	2950			81	2809		
WR*									
SR*^	1st January 2022 to 5th January 2022	00-24	5600	400	5200	1804	3396		
SR*^	6th January 2022 to 31st January 2022	00-24	6350	400	5950	1804	4146		

* 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 one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit		Rev- 0 to 8
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 8
ER-NR	Inter-regional flow pattern towards NR		Rev- 0 to 8
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 8
	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		Rev- 0 to 8
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Azara line		Rev- 0 to 8
	b) High Loading of 220 kV Salakati - BTPS D/C		
NER-ER	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II		Rev- 0 to 8
	b) High Loading of 220 kV Salakati - Alipurduar II or I		
W3 zone Injection	---		Rev- 0 to 8
Limiting Constraints (Simultaneous)			
			Applicable Revisions
NR	Import	Inter-regional flow pattern towards NR	Rev- 0 to 8
		N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	
	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak. (n-1) contingency of 400 kV Saranath-Pusauli	
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 8
	Export	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 8
SR	Import	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	Rev- 0 to 8
	Export	N-1 contingency of one ckt of 400 kV Kolhapur-PG - Kolhapur-MS D/C will overload of the other ckt	Rev- 0 to 8

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Total Transfer Capability for January 2022

As of: 4th December, 2022

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	28th October 2021	Whole Month	Revised STOA margin due to a) Operationalization of LTA OF 39 MW from PGLR_SREPL to UPPCL b) Operationalization of LTA OF 11 MW from Tuticorin-BETAMWIND to UPPCL c) Discontinuation of 50 MW MTOA Arunachal Pradesh to NPCL(UP)	WR-NR/ER-NR/NR Import
			Revised STOA margin due to operationalization of new LTA of 33 MW from AP41PL_BHDL to ODISHA	NR-ER/NR Export
			Revised STOA margin due to a) Operationalization of LTA of 24 MW from Spring energy to UP (NR) b) Operationalization of LTA of 5 MW from BETAM to UP (NR) c) Operationalization of LTA of 5 MW from BETAM to Odisha (ER) d) Operationalization of LTA of 21 MW from Hiriyur_Ostrokannada to Bihar (ER)	SR-WR/SR-ER/SR Export
2	28th November 2021	Whole Month	Revised STOA margin due to a) Operationalization of LTA OF 300 MW from RSBPL_FTG2 to Maharashtra b) Operationalization of LTA OF 100 from ASunceEPL_BKN to Maharashtra c) Operationalization of LTA OF 250 from MRPL to CSEB d) Operationalization of LTA OF 250 MW from ACSEPL_BHADLA to Maharashtra e) Operationalization of LTA from AP41PL_BHDL to ODISHA	NR-ER/NR-WR/NR Export
			Revised STOA margin due to operationalization of the LTA quantum of Tuticorin-BETAMWIND to UPPCL	WR-NR/ER-NR/NR Import
			Revised STOA margin due to a) Operationalization of LTA OF 50 MW from Fatehgarh PS(ACME Solar) to Pondicherry b) Operationalization of LTA OF 90 MW from Fatehgarh-II Solar to Telangana	WR-SR/SR Import
			Revised STOA margin due to a) Operationalization of LTA from Spring Energy,Pugalur to UP b) Operationalization of LTA from HIRIYUR_OSTROKANNADA to Bihar	SR-WR/SR Export
3	28th December 2021	Whole Month	Revised STOA margin due to a) Discontinuation of MTOA of 300 MW from AP43PL_BKN(SECI) to Odisha b) Increase in LTA of 50 MW from RSWPL3_FTG2 to BSHPCL c) Increase in LTA of 33 MW from AP41PL_BHDL to Odisha	NR-ER/NR-WR/NR Export
			Revised STOA margin due to increase in LTA of 23 MW from BRBCL (Railways)	ER-NR/NR Import
			Revised STOA margin due to operationalization of LTA of 100 MW from Rajasthan (ABC Solar private limited) to Pondicherry	WR-SR/SR Import
			Revised STOA margin due to increase in LTA by 20 MW from HIRIYUR_OSTROKANNADA to Bihar	SR Export
4	29th December 2021	Whole Month	Revised TTC/ATC due to change in flow pattern of WR-NR & ER-NR 1) Change in Load-Generation of NER 2) One units of Ranganadi HEP (3x105 MW), one unit of Doyang HEP (3x25) and one unit of BgTPP (3x250) are going under planned SD as per approval in 185th OCCM	ER-NR/WR-NR ER-NER/NER Import/NER-ER/NER Export
5	30th December 2021	01st January 2022	Due to extension of Shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	ER-SR/WR-SR/SR Import
6	31st December 2021	2nd January 2022 to 31st January 2022	Due to extension of Shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	ER-SR/WR-SR/SR Import
7	4th January 2022	6th January 2022 to 31st January 2022	TTC/ATC after commissioning of HVDC Raigarh - Pugalur Pole - IV	ER-SR/WR-SR/SR Import/SR-WR/SR Export
8	4th January 2022	6th January 2022	Due to extension of Shutdown of 765KV-WARDHA-AURANGABAD-1 & 2	ER-SR/WR-SR/SR Import

ASSUMPTIONS IN BASECASE					
				Month : January 2022	
S.No.	Name of State/Area	Load		Generation	
th December, 2022		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/PPs	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/PPs	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/PPs	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/PPs	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/PPs	0	0	2371	2370
	Total NER	3269	2494	3967	3847
	Total All India	186067	169164	194946	176088