National Load Despatch Centre Total Transfer Capability for January 2022

Issue Date: 31st December, 2021 Issue Time: 1700 hrs Revision No. 6

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
		00-06				628	1372		
NR-WR*	1st January 2022 to 31st January 2022	06-18	2500	500	2000	1856	144		
		18-24				628	1372		
		00-06	19500 18550**	1000	18500 17550**	11433 10483**	7067		
	1st January	06-18	17800 16850**	1000	16800 15850**	11822 10872*	4978		
WR-NR*	2022 to 31st January 2022	18-21	17800 16850**	1000	16800 15850**	11433 10483**	5367		
		21-24	19500 18550**	1000	18500 17550**	11433 10483**	7067		
	1st January	00-06	2000		1800	93	1707		
NR-ER*	2022 to 31st January 2022	06-18	2000	200	1800	1308	492		
		18-24	2000	400	1800	93	1707		
ER-NR*	1st January 2022 to 31st	00-06	5900 7600	400	5500 7200	4356 4356	2844		
EK-NK*	January 2022	21-24	5900	400	5500	4356	1144		
		21-24	3900	400	3300	4330	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.
	1st January	00-05	10000	650	9350	4110	5232		
WR-SR	2022	05-22 22-24	10000 10000	650	9350 9350	4118	5232 5232		
WR-SR [^]	2nd January 2022 to 5th January 2022	00-05 05-22 22-24	10000 10000 10000	650	9350 9350 9350	4118	5232 5232 5232	-350 -350 -350	Due to extension of Shutdown of 765KV-WARDHA-AURANGABAD-1 & 2
WR-SR	6th January 2022 to 31st	00-05 05-22	10350 10350	650	9700 9700	4118	5582 5582		
SR-WR *	January 2022 1st January 2022 to 31st	22-24 00-24	10350	400	9700 6200	934	5582 5266		
	January 2022								
ER-SR [△]	1st January	00-06	5750	350	5400	2675 2760	2725 2640		
ER-SK	2022	18-24	3.50	550	3.00	2675	2725		
	2nd January	00-06				2675	2725	-50	
		06-18 5750	5750 350	350	5400	2760	2640	-50	Due to extension of Shutdown of 765KV-WARDHA-AURANGABAD-1 & 2
ER-SR [△]	2022 to 5th January 2022		5/50						
ER-SR ^Δ	January 2022	18-24	5/50			2675 2675	2725	-50	
ER-SR ^A	January 2022 6th January 2022 to 31st		5800	350	5450	2675 2675 2760			
	6th January 2022 to 31st January 2022	18-24 00-06			5450	2675	2725 2775		
	January 2022 6th January 2022 to 31st	18-24 00-06 06-18			5450	2675 2760	2725 2775 2690	-50	being Specified.
ER-SR [△]	January 2022 6th January 2022 to 31st January 2022 1st January 2022 to 31st	18-24 00-06 06-18 18-24 00-24	5800		1790	2675 2760 2675	2725 2775 2690 2775	-50	being Specified.
ER-SR [^] SR-ER *	January 2022 6th January 2022 to 31st January 2022 1st January 2022 to 31st January 2022 1st January	18-24 00-06 06-18 18-24 00-24 00-02 02-07 07-12	5800 1850 1850 1850	350	1790 1790 1790	2675 2760 2675 455 455 455	2725 2775 2690 2775 1335 1335 1335	-50	being Specified.
ER-SR [△]	January 2022 6th January 2022 to 31st January 2022 1st January 2022 to 31st January 2022	18-24 00-06 06-18 18-24 00-24 00-02 02-07 07-12 12-17	5800 1850 1850		1790 1790	2675 2760 2675 455 455 455 455	2725 2775 2690 2775 1335 1335 1335 1335 1335	-50	being Specified.
ER-SR [^] SR-ER *	January 2022 6th January 2022 to 31st January 2022 1st January 2022 1st January 2022 1st January 2022 1st January 2022 to 31st January 2022 to 31st January 2022 to 31st January 2022 to 31st	18-24 00-06 06-18 18-24 00-24 00-02 02-07 07-12 12-17 17-21 21-24	1850 1850 1850 1850 1850 1850 1850	350	1790 1790 1790 1790 1640 1790	2675 2760 2675 455 455 455 455 455 455 455	2725 2775 2690 2775 1335 1335 1335 1335 1335 1335 1335	-50	being Specified.
ER-SR [^] SR-ER *	January 2022 6th January 2022 to 31st January 2022 1st January 2022 to 31st January 2022 to 31st January 2022 1st January 2022 1st January 2022 to 31st January 2022 to 31st January 2022	18-24 00-06 06-18 18-24 00-24 00-02 02-07 07-12 12-17 17-21	1850 1850 1850 1850 1700	350	1790 1790 1790 1790 1790 1640	2675 2760 2675 455 455 455 455 455 455	2725 2775 2690 2775 1335 1335 1335 1335 1335 1335	-50	being Specified.
ER-SR [^] SR-ER *	January 2022 6th January 2022 to 31st January 2022	18-24 00-06 06-18 18-24 00-24 00-02 02-07 07-12 12-17 17-21 21-24 00-02 02-07 07-12	1850 1850 1850 1850 1700 1850 2450 2450 2450	350	1790 1790 1790 1790 1640 1790 2390 2390 2390	2675 2760 2675 455 455 455 455 455 455 455 81 81 81	2725 2775 2690 2775 1335 1335 1335 1335 1335 1335 2309 2309 2309	-50	being Specified.
ER-SR* SR-ER* ER-NER*	January 2022 6th January 2022 to 31st January 2022	18-24 00-06 06-18 18-24 00-24 00-02 02-07 07-12 12-17 17-21 21-24 00-02 02-07	1850 1850 1850 1850 1700 1850 2450 2450	350	1790 1790 1790 1790 1790 1640 1790 2390 2390	2675 2760 2675 455 455 455 455 455 455 455 81	2725 2775 2690 2775 1335 1335 1335 1335 1335 1335 2309 2309	-50	being Specified.

National Load Despatch Centre Total Transfer Capability for January 2022

Issue Date: 31st December, 2021 Issue Time: 1700 hrs Revision No. 6

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	
W3 zone Injection	1st January 2022 to 31st January 2022	00-24	No limit is be	o 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) KWPCL, 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 commissionned 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 appropiate neasures like SPS implemetation.

^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.

Simultane	ous Import Capal	bility							
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
		00-06	25400		24000	15789	8211		
		06-09	24450** 25400 24450**		23050** 24000 23050**	14839** 16178 15228**	7822		
NR	1st January 2022 to 31st January 2022	09-17	25400 24450**	1400	24000 23050**	16178 15228**	7822		
		17-18	25400 24450** 25400		24000 23050** 24000	16178 15228** 15789	7822		
		18-24	24450**		23050**	14839**	8211		
	1st January 2022	00-02 02-07	1350 1350		1290 1290	455 455	835 835		-
			07.12	1350		1290	455	835	
NER [*]	to 31st January	12-17	1350	60	1290	455	835		
	2022	17-21	1200	1140	455	685			
		21-24	1350		1290	455	835		
\mathbf{WR}^*									
		00-06	15750		14750	6793	7957		
$SR^{*\#}$	1st January 2022	06-18	15750	1000	14750	6878	7872		
		18-24	15750		14750	6793	7957		
	2nd January	00-06	15750		14750	6793	7957	-400	D
$SR^{*\#}$	2022 to 5th	06-18	15750	1000	14750	6878	7872	-400	Due to extension of Shutdown of 765KV- WARDHA-AURANGABAD-1 & 2
	January 2022	18-24	15750		14750	6793	7957	-400	
	C.1. I	00-06	16150		15150	6793	8357		
SR*#	6th January 2022 to 31st January	06-18	16150	1000	15150	6878	8272		
	2022	18-24	16150		15150	6793	8357		

* 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-NRATC = 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.

Simultane	multaneous Export Capability																											
Corridor	Date	Time Period (hrs)	Total Transfer Capability (TTC)		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																			
		00-06				721	3079																					
NR*	1st January 2022 to 31st January 2022	06-18	4500	700	3800	3164	636																					
	·	18-24				721	3079																					
		00-02	2950		2890	81	2809																					
		02-07	2950		2890	81	2809																					
NER*	1st January 2022 to 31st	07-12	2950	60	60	2890	2890 81	2809																				
NEK.	January 2022	12-17	2950			00	00	00	00	00	60	60	60	00	60	60	60	60	60	00	00	00		2890	81	2809		
		17-21	2750				2690	81	2609																			
		21-24	2950		2890	81	2809																					
WR*																												
SR*^	1st January 2022 to 31st January 2022	00-24	5600	400	5200	1804	3396																					

^{*} 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.

	Constraints (Corridor wise)	T
		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 6
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 6
ER-NR	Inter-regional flow pattern towards NR	Rev- 0 to 6
	N-1 of one ICT of 765/400 kV, 1500 MVA ICT at Nizamabad will overload the other ICT	Rev- 0 to 6
	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 to 6
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 6
NER-ER	 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 6
W3 zone Injection		Rev- 0 to 6

Limiting Constraints (Simultaneous)

			Applicable Revisions
	Import	Inter-regional flow pattern towards NR	Rev- 0 to 6
NR	Import	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit	Rev- 0 to 6
NK	Export	(n-1) contingency of 400kV Zerda-Bhinmal and (n-1) contingency of 220kV Badod-Modak.	Rev- 0 to 6
	Export	(n-1) contingency of 400 kV Saranath-Pusauli	Rev- 0 to 0
		a) N-1 contingency of 400 kV Bongaigaon - Killing line (0000 hrs to 2400 hrs)	
	Import	b) High Loading of 220 kV Balipara-Sonabil (0000 hrs to 0700 hrs)	Rev- 0 to 6
NER		c) High Loading of 220 kV Salakati - BTPS D/C (0700 hrs to 1200 hrs)	
	Export	a) N-1 contingency of 220 kV Salakati - Alipurduar I or II	D 0 (6
		b) High Loading of 220 kV Salakati - Alipurduar II or I	Rev- 0 to 6
	Impout	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	Low Voltage at Gazuwaka (East) Bus	Rev- 0 to 6
SK	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 6
	Export	N-1 contingency of 500 MVA ICT at 400 kV Kolhapur-MS will overload the other 2x315 MVA ICTs	Kev- 0 to 0

National Load Despatch Centre Total Transfer Capability for January 2022

Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected		
			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		
1	28th October 2021	Whole Month	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		
			Revised STOA margin due to a) Operationalization of LTA OF 300 MW from RSBPL_FTG2 to Maharastra b) Operationalization of LTA OF 100 from ASunceEPL_BKN to Maharastra c) Operationalization of LTA OF 250 from MRPL to CSEB d) Operationalization of LTA OF 250 MW from ACSEPL_BHADLA to Maharastra e) Operationalization of LTA from AP41PL_BHDL to ODISHA	NR-ER/NR-WR/NR Export		
2	28th November 2021	Whole Month	Month Revised STOA margin due to operationalization of the LTA quantum of Tuticorin-BETAMWIND to UPPCL			
			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		
	28th December		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		
3	2021	Whole Month	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		
			Revised TTC/ATC due to change in flow pattern of WR-NR & ER-NR	ER-NR/WR-NR		
4	29th December 2021	Whole Month	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-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 Export		
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 Export		

				Month: January 2022	
S.No.	Name of State/Area		Load	Genera	tion
		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	4=40=	40500		10=00
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
5	Total SR	44891	37791	41162	37263
	rotal Oit	11551	0.701	11102	37200
V	NORTH-EASTERN REGION				1
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
	. 5.6. 11211	0200	2 101	3301	30-77
	Total All India	186067	169164	194946	176088