

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

Issue Date: 30th January 2022

Issue Time: 1700 hrs

Revision No. 5

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 February 2022 to 28th February 2022	00-06	2500	500	2000	628	1372		
		06-18				2156	0		
		18-24				628	1372		
WR-NR*	1st February 2022 to 15th February 2022	00-06	19300 18350**	1000	18300 17350**	11433 10483**	6867	-200	Due to extension of shutdown of 400 kV MAHENDRAGARH - DHANONDA 1
		06-18	17600 16650**	1000	16600 15650**	11822 10872*	4778		
		18-21	17600 16650**	1000	16600 15650**	11433 10483**	5167		
		21-24	19300 18350**	1000	18300 17350**	11433 10483**	6867		
WR-NR*	16th January 2022 to 20th 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 February 2022 to 28th February 2022	00-06	2000	200	1800	93	1707		
		06-18	2000		1800	1541	259		
		18-24	2000		1800	93	1707		
ER-NR*	1st February 2022 to 15th February 2022	00-06	5850	400	5450	4371	1079	-50	Due to extension of shutdown of 400 kV MAHENDRAGARH - DHANONDA 1
		06-21	7550	400	7150	4371	2779		
		21-24	5850	400	5450	4371	1079		
ER-NR*	16th February 2022 to 28th February 2022	00-06	5900	400	5500	4371	1129		
		06-21	7600	400	7200	4371	2829		
		21-24	5900	400	5500	4371	1129		
W3-ER	1st February 2022 to 28th February 2022	00-24	No limit is being specified.						
ER-W3	1st February 2022 to 28th February 2022	00-24	No limit is being specified.						
WR-SR [^]	1st February 2022 to 15th February 2022	00-05	11250	650	10600	3996	6604	-350	Due to extension of shutdown of 765KV-WARDHA-AURANGABAD-3 & 4
		05-22	11250		10600		6604		
		22-24	11250		10600		6604		
WR-SR [^]	16th February 2022 to 28th February 2022	00-05	11600	650	10950	3996	6954		
		05-22	11600		10950		6954		
		22-24	11600		10950		6954		
SR-WR *	1st February 2022 to 28th February 2022	00-24	7400	400	7000	983	6017		

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ER-SR [^]	1st February 2022 to 15th February 2022	00-06	5650	350	5300	2675	2625	-50	Due to extension of shutdown of 765KV-WARDHA-AURANGABAD-3 & 4	
		06-18				2760	2540			
		18-24				2675	2625			
ER-SR [^]	16th February 2022 to 28th February 2022	00-06	5700	350	5350	2675	2675			
		06-18				2760	2590			
		18-24				2675	2675			
SR-ER *	1st February 2022 to 28th February 2022	00-24						No limit is being Specified.		
ER-NER*	1st February 2022	00-02	1665	60		1605	455	1150	Due to shutdown of 400 kV Bongaigaon- Azara line	
		02-07	1665			1605	455	1150		
		07-12	1450			1390	455	935		-215
		12-17	1450			1390	455	935		-215
		17-21	1260			1200	455	745		-185
		21-24	1450			1390	455	935		-215
ER-NER*	2nd February 2022 to 28th February 2022	00-02	1665	60		1605	455	1150		
		02-07	1665			1605	455	1150		
		07-12	1665			1605	455	1150		
		12-17	1665			1605	455	1150		
		17-21	1445			1385	455	930		
		21-24	1665			1605	455	1150		
NER-ER*	1st February 2022	00-02	2925	60		2865	81	2784	Due to shutdown of 400 kV Bongaigaon- Azara line	
		02-07	2925			2865	81	2784		
		07-12	2675			2615	81	2534		-250
		12-17	2675			2615	81	2534		
		17-21	2575			2515	81	2434		
		21-24	2675			2615	81	2534		
NER-ER*	2nd February 2022 to 28th February 2022	00-02	2925	60		2865	81	2784		
		02-07	2925			2865	81	2784		
		07-12	2925			2865	81	2784		
		12-17	2925			2865	81	2784		
		17-21	2825			2765	81	2684		
		21-24	2925			2865	81	2784		
W3 zone Injection	1st February 2022 to 28th February 2022	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) KWPC, n)Vandana Viduyt 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 February 2022 to 15th February 2022	00-06	25150	1400	23750	15804	7946	-250	Due to extension of shutdown of 400 kV MAHENDRAGARH - DHANONDA 1
			24200**		22800**	14854**			
		06-09	25150		23750	16193	7557		
			24200**		22800**	15243**			
		09-17	25150		23750	16193	7557		
			24200**		22800**	15243**			
17-18	25150	23750	16193	7557					
	24200**	22800**	15243**						
NR	16th February 2022 to 28th February 2022	00-06	25400	1400	24000	15804	8196		
			24450**		23050**	14854**			
		06-09	25400		24000	16193	7807		
			24450**		23050**	15243**			
		09-17	25400		24000	16193	7807		
			24450**		23050**	15243**			
17-18	25400	24000	16193	7807					
	24450**	23050**	15243**						
NER*	1st February 2022	00-02	1165	60	1105	455	650	Due to shutdown of 400 kV Bongaigaon-Azara line	
			1165		1105	455			
		07-12	950		890	455	435		-215
			950		890	455			
		17-21	760		700	455	245		-185
			950		890	455			
21-24	950	890	455	435	-215				
NER*	2nd February 2022 to 28th February 2022	00-02	1165	60	1105	455	650		
			1165		1105	455			
		07-12	1165		1105	455	650		
			1165		1105	455			
		17-21	945		885	455	430		
			1165		1105	455			
21-24	1165	1105	455	650					

WR*									
SR*#									
SR*#	1st February 2022 to 15th February 2022	00-06	16900	1000	15900	6671	9229	-400	Due to extention of shutdown of 765KV- WARDHA-AURANGABAD-3 & 4
		06-18	16900		15900	6756	9144		
		18-24	16900		15900	6671	9229		
SR*#	16th February 2022 to 28th February 2022	00-06	17300	1000	16300	6671	9629		
		06-18	17300		16300	6756	9544		
		18-24	17300		16300	6671	9629		
* 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 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 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 February 2022 to 28th February 2022	00-06	4500	700	3800	721	3079		
		06-18				3697	103		
		18-24				721	3079		
NER*	1st February 2022	00-02	3425	60	3365	81	3284	-250	Due to shutdown of 400 kV Bongaigaon- Azara line
		02-07	3425			81	3284		
		07-12	3175			81	3034		
		12-17	3175			81	3034		
		17-21	3075			81	2934		
		21-24	3175			81	3034		
NER*	2nd February 2022 to 28th February 2022	00-02	3425	60	3365	81	3284		
		02-07	3425			81	3284		
		07-12	3425			81	3284		
		12-17	3425			81	3284		
		17-21	3325			81	3184		
		21-24	3425			81	3284		
WR*									
SR*^	1st February 2022 to 28th February 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 5
NR-ER	(n-1) contingency of 400 kV Saranath-Pusauli		Rev- 0 to 5
ER-NR	Inter-regional flow pattern towards NR		Rev- 0 to 5
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 5
	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 5
ER-NER	a) N-1 contingency of 400 kV Bongaigaon - Killing line b) High Loading of 220 kV Salakati - BTPS D/C		Rev- 0 to 5
NER-ER	a) N-1 contingency of 220 kV BTPS-Salakati I or II b) High Loading of 220 kV BTPS-Salakati II or I		Rev- 0 to 5
W3 zone Injection	---		Rev- 0 to 5
Limiting Constraints (Simultaneous)			Applicable Revisions
NR	Import	Inter-regional flow pattern towards NR	Rev- 0 to 5
	Export	N-1 contingency of one ckt of 765 kV Vindhyachal-Varanasi will overload the other circuit (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 5
NER	Import	a) N-1 contingency of 400 kV Bongaigaon - Killing line b) High Loading of 220 kV Salakati - BTPS D/C	Rev- 0 to 5
	Export	a) N-1 contingency of 220 kV BTPS-Salakati I or II b) High Loading of 220 kV BTPS-Salakati II or I	Rev- 0 to 5
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 5
	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 5

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Revision No	Date of Revision	Period of Revision	Reason for Revision/Comment	Corridor Affected
1	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
2	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 BSHPL 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
3	04th January 2022	Whole Month	TTC/ATC Revised after commissioning of HVDC Raigarh - Pugalur Pole - IV	WR-SR/ER-SR/SR Import/SR-WR/SR-EXPORT
4	28th January 2021	Whole Month	Revised STOA margin due to a) Operationalization of LTA OF 200 MW from ARERJL to Maharashtra b) Operationalization of LTA OF 75.55 MW from AvSusRJPPL_BKN to TSSPDCL c) Operationalization of LTA OF 29.45 MW from AvSusRJPPL_BKN to TSSPDCL d) Operationalization of LTA OF 200 MW from AP43PL_BKN to JBVNL e) Increase in quantum of LTA by 33.33 MW from AP41PL_BHDL to ODISHA	NR-ER/NR-WR/NR Export
			Revised STOA margin due to a) Increase in quantum of LTA by 10 MW from BRBCL(Railway) to DELHI b) Increase in quantum of LTA by 40 MW from BRBCL(Railway) to HARYANA c) Decrease in quantum of LTA by 35 MW from BRBCL(Railway) to UTTAR PRADESH(UP -STU)	ER-NR/NR Import
			Revised STOA margin due to a) Increase in quantum of LTA by 44.17 MW from From Fatehgarh-II Solar to Telangana b) Increase in quantum of LTA by 73.62 MW from From Bhadla-II Solar to Telangana	WR-SR/SR Import
			Revised STOA margin due to increase in LTA by 20 MW from HIRIYUR_ OSTROKANNADA to Bihar	SR Export
5	30th January 2022	1st February 2022 to 15th February 2022	Due to extention of shutdown of 765KV-WARDHA-AURANGABAD-3 & 4	ER-SR/WR-SR/SR Import
		1st February 2022 to 15th February 2022	Due to shutdown of 400 kV Bongaigaon- Azara line	ER-NR/NER Import/NER-ER/NR Export
		1st February 2022	Due to shutdown of 400 KV MAHINDERGARH(APL)-DHANODA(HV) (ATIL) CKT-1	ER-NR/WR-NR/NR Import

ASSUMPTIONS IN BASECASE					
				Month : February 2022	
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/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