

**GRID CONTROLLER OF INDIA LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI**

Date: **04-May-2023**

System Reliability Indices Report for the month of April 2023

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	0	0.00	0.00
2	ER-NR	0	0.00	0.00
3	Import of NR	8	2.00	0.28
4	NEW-SR	1	0.25	0.03
5	NER Import	0	0.00	0.00

Percentage(%) of times (N-1) Criteria was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	0	0.00	0.00
2	ER-NR	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	1	0.25	0.03
4	NER Import	0	0.00	0.00

Remarks: Flows crossing Total Transfer Capability (TTC) on interregional corridors has been worked out as a proxy for (N-1) violation.

FREQUENCY DEVIATION INDEX FOR APRIL 2023

Date of reporting:

04-May-23

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	No. of hours frequency is outside 49.95- 50.05 Hz	Average Frequency (Hz)
	<49.90 Hz	49.90 - 50.05 Hz	>50.05 Hz			
01-Apr-23	9.19	64.47	26.34	35.53	8:31	50.00
02-Apr-23	7.92	72.14	19.94	27.86	6:41	50.00
03-Apr-23	13.60	72.69	13.72	27.31	6:33	49.97
04-Apr-23	12.00	72.37	15.63	27.63	6:37	49.98
05-Apr-23	8.94	69.80	21.26	30.20	7:14	50.00
06-Apr-23	13.38	64.59	22.03	35.41	8:29	49.99
07-Apr-23	6.94	70.10	22.95	29.90	7:10	50.00
08-Apr-23	9.88	71.11	19.00	28.89	6:56	49.99
09-Apr-23	9.16	68.65	22.20	31.35	7:31	50.00
10-Apr-23	16.91	65.27	17.82	34.73	8:20	49.98
11-Apr-23	14.98	68.94	16.09	31.06	7:27	49.98
12-Apr-23	7.81	63.04	29.14	36.96	8:52	50.01
13-Apr-23	12.70	71.77	15.53	28.23	6:46	49.98
14-Apr-23	12.12	71.46	16.42	28.54	6:51	49.98
15-Apr-23	22.03	63.75	14.22	36.25	8:42	49.96
16-Apr-23	11.23	66.97	21.81	33.03	7:55	49.99
17-Apr-23	12.20	59.19	28.61	40.81	9:47	50.00
18-Apr-23	5.23	73.88	20.89	26.12	6:16	50.00
19-Apr-23	8.30	67.25	24.46	32.75	7:51	50.00
20-Apr-23	4.97	69.14	25.89	30.86	7:24	50.01
21-Apr-23	7.14	63.66	29.20	36.34	8:43	50.01
22-Apr-23	2.30	72.87	24.83	27.13	6:30	50.01
23-Apr-23	4.85	64.24	30.91	35.76	8:35	50.02
24-Apr-23	11.76	72.00	16.24	28.00	6:43	49.98
25-Apr-23	6.49	68.67	24.84	31.33	7:31	50.00
26-Apr-23	16.56	66.19	17.25	33.81	8:06	49.98
27-Apr-23	9.99	71.64	18.37	28.36	6:48	49.99
28-Apr-23	15.35	68.70	15.95	31.30	7:30	49.97
29-Apr-23	9.29	66.04	24.66	33.96	8:09	50.00
30-Apr-23	13.11	56.42	30.46	43.58	10:27	50.01
April 2023	10.54	67.90	21.56	32.10	231:07	49.99

*FDI is defined as percentage of time for which frequency is outside IEGC band (49.90-50.05 Hz)

विद्युत विभव रूपरेखा माह - अप्रैल 2023

VOLTAGE PROFILE - APRIL 2023

Date of reporting: 04-May-23

क्र.सं. Sl. No.	क्षेत्र REGION	उपकेंद्र SUBSTATION	VOLTAGE < V(lower)* (V=380,728 kV)	V(lower) < VOLTAGE < V(upper)*	VOLTAGE > V(upper)* (V=420,800 kV)	Voltage Deviation Index (%age of time voltage is outside range)	Number of hours voltage was outside IEGC band during month	उच्चतम (कि.वॉ.) Maximum(kV)	निम्नतम(कि.वॉ.) Minimum(kV)	औसत (कि.वॉ.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	804	752	776	
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	797	766	781	
3		गया GAYA	0%	100%	0%	0%	0	785	754	771	
4		जौरत JERAT	0%	100%	0%	0%	0	800	736	766	
5		झारसुगुडा JHARSUGUDA	0%	98%	2%	2%	15	808	773	790	
6		मिदिनपुर MEDINIPUR	0%	100%	0%	0%	0	799	750	771	
7		रान्ची RANCHI	0%	100%	0%	0%	0	798	765	782	
8		सासाराम SASARAM	0%	100%	0%	0%	0	791	729	765	
1		उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	802	753	778
2			आगरा (फतेहगढ़) AGRA (FATEHABAD)	0%	100%	0%	0%	0	792	749	769
3	अजमेर AJMER		0%	100%	0%	0%	3	804	752	782	
4	अलीगढ़ ALIGARH		0%	100%	0%	0%	0	799	750	774	
5	अनूपरा सी ANPARA-C		0%	100%	0%	0%	0	777	753	764	
6	अनूपरा डी ANPARA-D		0%	100%	0%	0%	0	778	751	763	
7	अन्ता ANTA		0%	99%	1%	1%	8	806	767	788	
8	बलिया BALLIA		0%	100%	0%	0%	0	793	735	765	
9	बारा BARA		0%	100%	0%	0%	0	788	758	771	
10	भाडला BHADLA		0%	100%	0%	0%	0	803	744	774	
11	भाडला-2 BHADLA-2		0%	100%	0%	0%	0	809	745	773	
12	भिवानी BHIWANI		0%	100%	0%	0%	1	806	757	780	
13	बीकानेर BIKANER		0%	100%	0%	0%	0	803	751	775	
14	बरेली BAREILLY		0%	99%	1%	1%	4	806	740	775	
15	चित्तौड़गढ़ CHITTORGARH		0%	100%	0%	0%	2	806	748	780	
16	फतेहगढ़-2 FATEHGARH-2		0%	100%	0%	0%	0	803	737	771	
17	फतेहपुर FATEHPUR		0%	100%	0%	0%	0	795	735	771	
18	ग्रेटर नोइडा GREATER NOIDA		0%	100%	0%	0%	1	802	750	776	
19	हापड़ HAPUR		0%	100%	0%	0%	0	796	735	768	
20	जाहानपुर JAWAHARPUR		0%	99%	1%	1%	5	807	765	783	
21	झाड़कपुर JHATIKARA		0%	100%	0%	0%	0	800	754	776	
22	कानपुर जीआइएन KANPUR GIS		0%	100%	0%	0%	0	797	740	771	
23	खेतरा KHETRI		0%	100%	0%	0%	0	801	754	777	
24	कोटेश्वर KOTESHWAR		0%	100%	0%	0%	2	805	755	779	
25	ललितपुर LALITPUR		0%	100%	0%	0%	0	773	745	758	
26	लखनऊ LUCKNOW		0%	100%	0%	0%	0	795	738	769	
27	मैनपुरी MAINPURI		0%	100%	0%	0%	1	803	746	777	
28	मेरठ MEERUT		0%	100%	0%	0%	3	807	754	780	
29	मोगा MOGA		0%	100%	0%	0%	1	802	747	771	
30	ओबरा सी OBRA C		0%	97%	3%	3%	22	817	738	768	
31	उरई ORAI	0%	100%	0%	0%	2	805	761	784		
32	फागी PHAGI	0%	100%	0%	0%	1	805	757	782		
33	उन्नाव UNNAO	0%	100%	0%	0%	0	793	736	763		
34	वाराणसी VARANASI	0%	100%	0%	0%	0	795	751	775		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	798	754	772	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	1	804	749	779	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	747	770	
4		भुज BHUJ	0%	100%	0%	0%	1	801	750	773	
5		भुज-2 BHUJ-2	0%	100%	0%	0%	0	796	746	768	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	788	759	772	
7		बीना BINA	0%	100%	0%	0%	2	803	765	782	
8		बनसकन्ठा BANASKANTHA	0%	100%	0%	0%	1	803	750	778	
9		चम्पा CHAMPA	0%	96%	4%	4%	26	807	776	792	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	798	750	776	
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	793	762	777	
12		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	798	767	784	
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	793	740	769	
14		गदरवाड़ा GADARWARA	0%	99%	1%	1%	6	807	770	786	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	3	805	757	782	
16		इंदौर INDORE	0%	100%	0%	0%	0	795	749	773	
17		जबलपुर JABALPUR	0%	96%	4%	4%	28	810	773	789	
18		खडवा KHANDWA	0%	100%	0%	0%	0	793	753	775	
19		कोरडी KORADI	0%	100%	0%	0%	0	785	757	769	
20		लकडिया LAKADIYA	0%	99%	1%	1%	9	808	756	780	
21		समना पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	801	776	789	
22		पाण्डे PADDHE	0%	100%	0%	0%	3	809	745	777	
23		पार्ली PARLI	0%	100%	0%	0%	2	808	751	780	
24		पुणे PUNE	0%	99%	1%	1%	5	809	736	777	
25		राजनन्दगाँव RAJNANDGAON	0%	99%	1%	1%	7	806	772	789	
26		सासन SASAN	0%	100%	0%	0%	0	793	766	779	
27		सतना SATNA	0%	100%	0%	0%	3	805	767	784	
28		सिबनी SEONI	0%	100%	0%	0%	0	793	758	777	
29		सीपत SIPAT	0%	100%	0%	0%	0	788	761	773	
30		सोलापुर SOLAPUR	0%	98%	2%	2%	11	811	754	784	
31		तिरोडा TIRODA	0%	100%	0%	0%	0	777	756	765	
32		तामनार TAMNAR	0%	100%	0%	0%	0	800	774	788	
33		वडोदरा VADODARA	0%	100%	0%	0%	3	803	744	777	
34		विन्ध्यचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	796	771	783	
35		वर्धा WARDHA	0%	100%	0%	0%	1	804	762	783	
36		वरौरा WARORA	0%	100%	0%	0%	0	801	759	780	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	89%	11%	11%	81	819	752	787	
2		चिल्कलीपेट CHILAKALURIPETA	0%	92%	8%	8%	58	820	750	783	
3		कुरनल KURNOL	0%	100%	0%	0%	0	798	744	773	
4		महेश्वर MAHESHWARAM	0%	98%	2%	2%	18	808	737	777	
5		निजामाबाद NIZAMABAD	0%	87%	13%	13%	92	812	748	786	
6		नेल्लोर पुलिंग NELLORE PS	0%	100%	0%	0%	0	797	746	773	
7		रायचूर RAICHUR	0%	100%	0%	0%	0	801	750	777	
8		श्रीकाकुलम SRIKAKULAM	0%	98%	2%	2%	17	816	753	782	
9		तिरुवल्लम THIRUVALEM	0%	99%	1%	1%	5	804	739	775	
10		वेमगिरी VEMAGIRI	0%	96%	4%	4%	27	818	757	784	
1	पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	0%	0%	0%	0	0	0	0	
2		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	414	361	401	
3		बोंगाईगाँव BONGAIGON (400 kV)	0%	100%	0%	0%	0	417	398	408	
4		बोंगाईगाँव टीपीएस BONGAIGON TPS (400 kV)	0%	100%	0%	0%	0	420	400	410	
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	415	393	404	
6		बर्मिहाट BYRNHAT (400 kV)	0%	100%	0%	0%	0	419	401	411	
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	415	393	403	
8		अजरा AZARA (400 kV)	0%	100%	0%	0%	0	402	391	398	
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	414	392	403	
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	418	392	405	
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	420	394	406	
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	414	402	407	
13		पूर्वचनारी PK BARI (400 kV)	0%	100%	0%	0%	0	411	394	403	
14		रंगानादी RANGANADI (400 kV)	0%	99%	0%	1%	4	422	400	410	
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	417	398	408	
16		सुबान्सिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0	
17		सुरज्यामनिनगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	409	395	402	
18		थोउबाल THOUBAL (400 kV)	1%	99%	0%	1%	5	408	374	390	

All listed stations are 765 kV stations unless otherwise mentioned
*Percentage is calculated w.r.t. Time of one month.

All India Monthly Angular spread w.r.to Vindhyachal _Apr-2023

- AGRA_PG ALIPU_PG BACHU_PG BALIP_PG BONGA_PG CHDPR_MH DURG4_WB FARAK_PG GJWKA_PG
- HOSUR_PG KALW4_MH KISNP_PG KOLAR_PG KOTA_PG KSTPS_GS KZKDE_PG MOGA_PG PATNA_PG
- PURNW_PG RHNHV_PG SILCR_PG TALCH_PG TCHRN_PG UNNAO_UP VINDP_PG

