

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

Date: 05-May-2025

System Reliability Indices Report for the month of April 2024

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	9	2.25	0.31
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
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	3	0.75	0.10
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
4	NER Import	19	4.75	0.66

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 2025

Date of reporting:

05-May-25

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-25	2.52	77.13	20.35	22.87	5:29	50.01
02-Apr-25	6.18	78.84	14.98	21.16	5:04	50.00
03-Apr-25	4.93	80.60	14.47	19.40	4:39	50.00
04-Apr-25	6.72	79.32	13.96	20.68	4:57	49.99
05-Apr-25	5.96	75.60	18.44	24.40	5:51	50.00
06-Apr-25	2.71	66.45	30.84	33.55	8:03	50.04
07-Apr-25	6.06	75.46	18.47	24.54	5:53	50.00
08-Apr-25	3.76	80.19	16.05	19.81	4:45	50.00
09-Apr-25	6.05	76.55	17.40	23.45	5:37	50.00
10-Apr-25	1.31	71.30	27.40	28.70	6:53	50.03
11-Apr-25	4.17	69.07	26.76	30.93	7:25	50.02
12-Apr-25	2.12	73.78	24.10	26.22	6:17	50.02
13-Apr-25	1.63	64.39	33.98	35.61	8:32	50.04
14-Apr-25	3.80	74.94	21.26	25.06	6:00	50.01
15-Apr-25	3.32	81.22	15.46	18.78	4:30	50.00
16-Apr-25	4.07	76.12	19.80	23.88	5:43	50.00
17-Apr-25	3.84	83.09	13.07	16.91	4:03	50.00
18-Apr-25	3.59	87.29	9.12	12.71	3:03	50.00
19-Apr-25	14.41	60.02	25.57	39.98	9:35	50.00
20-Apr-25	3.10	77.21	19.69	22.79	5:28	50.01
21-Apr-25	24.47	66.12	9.41	33.88	8:07	49.94
22-Apr-25	9.64	71.48	18.88	28.52	6:50	49.99
23-Apr-25	2.48	75.37	22.15	24.63	5:54	50.01
24-Apr-25	7.42	73.81	18.77	26.19	6:17	50.00
25-Apr-25	4.56	84.28	11.16	15.72	3:46	49.99
26-Apr-25	3.73	82.85	13.43	17.15	4:07	50.00
27-Apr-25	6.06	73.13	20.81	26.88	6:27	50.00
28-Apr-25	4.88	78.73	16.39	21.27	5:06	50.00
29-Apr-25	0.68	78.15	21.17	21.85	5:14	50.02
30-Apr-25	0.65	76.78	22.57	23.22	5:34	50.02
April 2025	5.16	75.64	19.20	24.36	175:22	50.00

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

Voltage Profile

विद्युत विभव रूपरेखा माह - अप्रैल 2025

VOLTAGE PROFILE - April 2025

Date of reporting: 05-May-25

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.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	100%	100%	0%	0%	0	796	751	774
2		दार्लिपली DARLIPALI	0%	100%	0%	0%	0	788	760	774
3		गया GAYA	0%	100%	0%	0%	0	781	744	764
4		जीरत JEEERAT	0%	100%	0%	0%	1	804	736	766
5		झारसगुडा JHARSUGUDA	0%	100%	0%	0%	0	799	766	783
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	1	807	747	774
7		रांची RANCHI	0%	100%	0%	0%	0	798	762	781
8		सासाराम SASARAM	0%	100%	0%	0%	0	796	745	764
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	804	754	780
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	798	751	774
3		अजमेर AJMER	0%	98%	2%	2%	13	806	746	784
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	796	754	776
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	781	753	766
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	777	751	762
7		अन्ता ANTA	0%	100%	0%	0%	0	799	766	781
8		बालिया BALLIA	0%	100%	0%	0%	0	793	736	766
9		बारा BARA	0%	100%	0%	0%	0	785	753	768
10		भोडला BHADLA	0%	100%	0%	0%	0	803	748	783
11		भोडला-2 BHADLA-2	0%	100%	0%	0%	0	798	719	780
12		भिवानी BHIWANI	0%	100%	0%	0%	1	801	763	784
13		बीकानेर BIKANER	0%	100%	0%	0%	0	798	740	782
14		बरेली BAREILLY	0%	99%	1%	1%	8	808	738	776
15		चित्तौड़गढ़ CHITTORGARH	0%	98%	2%	2%	12	806	753	783
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	795	715	776
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	794	748	772
18		घाटमपुर GHATAMPUR	0%	100%	0%	0%	0	801	732	766
19		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	0	801	756	777
20		हापड़ HAPUR	0%	100%	0%	0%	0	798	744	772
21		जावहरपुर JAWAHARPUR	0%	100%	0%	0%	0	787	743	777
22		झुझिपुर JHATIKARA	0%	100%	0%	0%	0	798	753	777
23		कानपुर जीआरएस KANPUR GIS	0%	100%	0%	0%	0	795	746	777
24		खेती KHETRI	0%	100%	0%	0%	0	800	742	780
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	796	753	774
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	775	744	759
27		लखनऊ LUCKNOW	0%	100%	0%	0%	1	805	737	771
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	791	737	765
29		मीरठ MEERUT	0%	100%	0%	0%	3	803	757	781
30		मीरठ(UP) MEERUT (UP)	0%	100%	0%	0%	0	797	748	772
31		मोगा MOGA	0%	99%	1%	1%	4	807	758	783
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	775	746	761
33		उरई ORAI	0%	99%	1%	1%	5	809	757	785
34		फागी PHAGI	0%	100%	0%	0%	1	804	747	783
35		रामपुर RAMPUR	0%	98%	1%	1%	10	809	739	779
36		उन्नाव UNNAO	0%	100%	0%	0%	0	790	734	761
37		वाराणसी VARANASI	0%	100%	0%	0%	0	794	754	773
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	794	752	772
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	798	746	775
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	748	772
4		भुज BHUJ	0%	100%	0%	0%	0	796	743	773
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	790	742	770
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	784	754	768
7		बीना BINA	0%	100%	0%	0%	0	802	755	778
8		बनसकन्ठा BANASKANTHA	0%	100%	0%	0%	2	803	742	779
9		चापा CHAMPA	0%	99%	1%	1%	5	807	767	787
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	797	747	772
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	781	756	769
12		रायपुर पलिंग RAIPUR POOLING	0%	100%	0%	0%	0	796	754	777
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	794	745	769
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	803	752	780
15		गुजालियर GWALIOR	0%	100%	0%	0%	0	805	754	781
16		इन्दौर INDORE	0%	100%	0%	0%	0	793	748	770
17		जबलपुर JABALPUR	0%	100%	0%	0%	3	807	760	783
18		खण्डवा KHANDWA	0%	100%	0%	0%	0	788	748	767
19		कोराडी KORADI	0%	100%	0%	0%	0	792	756	768
20		लकाडिया LAKADIYA	0%	100%	0%	0%	3	806	749	781
21		रायगढ़ पलिंग RAIGARH POOLING	0%	100%	0%	0%	0	792	766	780
22		पडरघे PADGHE	0%	100%	0%	0%	0	798	738	774
23		परली PARLI	0%	100%	0%	0%	4	807	751	783
24		पुणे PUNE	0%	100%	0%	0%	0	805	743	778
25		राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	1	804	764	784
26		सासन SASAN	0%	100%	0%	0%	0	793	764	776
27		सतना SATNA	0%	100%	0%	0%	2	804	762	782
28		सिवनी SEONI	0%	100%	0%	0%	0	796	755	776
29		सीपत SIPAT	0%	100%	0%	0%	0	784	755	768
30		सोलापुर SOLAPUR	0%	99%	1%	1%	5	810	756	786
31		तिरुठा TIRORA	0%	100%	0%	0%	0	782	756	766
32		तामनार TAMNAR	0%	100%	0%	0%	0	792	766	779
33		वाडोदरा VADODARA	0%	100%	0%	0%	3	803	736	776
34		विन्ध्याचल पलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	796	766	778
35		वर्धा WARDHA	0%	100%	0%	0%	0	803	751	777
36		वरोरार WARORA	0%	100%	0%	0%	0	802	747	781
1	दक्षिणी क्षेत्र SR	अरियलर ARIYALUR	0%	100%	0%	0%	0	795	748	774
2		कडपा CUDDAPAH	0%	100%	0%	0%	0	777	777	777
3		चिल्लरपेट CHILAKALURIPETA	0%	99%	1%	1%	10	806	759	786
4		कर्नूल KURNOOL	0%	100%	0%	0%	0	798	758	778
5		महेश्वरम MAHESWARAM	0%	99%	1%	1%	8	810	761	788
6		निजामाबाद NIZAMABAD	0%	93%	7%	7%	55	814	760	790
7		नेल्लूर पलिंग NELLORE PS	0%	100%	0%	0%	0	797	756	773
8		नॉर्थ चेंन्नै पलिंग NORTH CHENNAI PS	0%	100%	0%	0%	0	797	751	776
9		रायचूर RAICHUR	0%	100%	0%	0%	0	799	758	780
10		श्रीकाकुलम SRIKAKULAM	0%	100%	0%	0%	0	801	744	779
11		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	1	805	751	775
12		वेमगिरी VEMAGIRI	0%	97%	3%	3%	20	809	758	788
13		वारंगल WARANGAL	0%	100%	0%	0%	1	802	753	782
1	पूर्वोत्तर क्षेत्र NER	बालिपार बालिपारा (400 kV)	0%	100%	0%	0%	0	415	387	404
2		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	419	362	401
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	416	395	406
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	396	408
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	417	387	403
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	416	392	406
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	417	388	403
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	413	401	407
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	412	385	401
10		न्यू मरिआनी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	417	388	405
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	416	385	404
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	413	400	406
13		पर्वकचबारी PK BARI (400 kV)	0%	100%	0%	0%	0	415	392	402
14		रंगानादी RANGANADI (400 kV)	0%	100%	0%	0%	0	422	388	405
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	418	394	407
16		सूर्यजमिनियार SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	411	390	402
17		थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	413	384	399

All listed stations are 765 kV stations unless otherwise mentioned

*Percentage is calculated w.r.t. Time of one month.

Monthly Angular spread w.r.to Vindhyachal_April-2025

