

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

Date: 05-Jun-2024

System Reliability Indices Report for the month of MAY 2024

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	207	51.75	6.96
2	ER-NR	0	0.00	0.00
3	Import of NR	11	2.75	0.37
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	130	32.50	4.37
2	ER-NR	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
4	NER Import	38	9.50	1.28

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 MAY 2024

Date of reporting:

05-Jun-24

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-May-24	1.57	81.00	17.43	19.00	4:33	50.01
02-May-24	1.97	82.09	15.94	17.91	4:17	50.01
03-May-24	1.41	74.16	24.43	25.84	6:12	50.02
04-May-24	3.68	83.04	13.28	16.96	4:04	50.00
05-May-24	3.82	81.08	15.10	18.92	4:32	50.00
06-May-24	4.24	68.88	26.89	31.12	7:28	50.01
07-May-24	1.78	69.26	28.96	30.74	7:22	50.03
08-May-24	2.93	71.45	25.63	28.55	6:51	50.01
09-May-24	2.12	79.09	18.80	20.91	5:01	50.01
10-May-24	0.13	75.53	24.34	24.47	5:52	50.02
11-May-24	6.82	84.02	9.17	15.98	3:50	49.99
12-May-24	6.39	80.75	12.86	19.25	4:37	49.99
13-May-24	0.56	78.06	21.39	21.94	5:16	50.02
14-May-24	2.05	79.07	18.88	20.93	5:01	50.01
15-May-24	2.14	85.41	12.45	14.59	3:30	50.00
16-May-24	1.40	89.21	9.39	10.79	2:35	50.00
17-May-24	3.25	85.95	10.80	14.05	3:22	50.00
18-May-24	3.47	82.30	14.22	17.70	4:14	50.01
19-May-24	0.84	85.20	13.96	14.80	3:33	50.01
20-May-24	0.42	82.12	17.47	17.88	4:17	50.01
21-May-24	2.58	80.30	17.12	19.70	4:43	50.01
22-May-24	0.42	84.32	15.27	15.68	3:45	50.01
23-May-24	1.92	87.73	10.35	12.27	2:56	50.00
24-May-24	2.73	87.42	9.85	12.58	3:01	49.99
25-May-24	5.76	82.22	12.01	17.78	4:16	49.99
26-May-24	2.21	79.69	18.10	20.31	4:52	50.01
27-May-24	2.91	82.81	14.28	17.19	4:07	50.00
28-May-24	1.86	76.31	21.83	23.69	5:41	50.01
29-May-24	2.57	73.33	24.10	26.67	6:24	50.01
30-May-24	1.15	69.80	29.05	30.20	7:14	50.03
31-May-24	2.09	79.79	18.11	20.21	4:51	50.01
May 2024	2.49	80.04	17.47	19.96	148:28	50.01

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

क्र.स. 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	0%	100%	0%	0%	0	799	754	774	
2		दालीपली DALLIPALI	0%	100%	0%	0%	0	792	767	778	
3		गाया GAYA	0%	100%	0%	0%	0	784	752	766	
4		जीरत JERAT	0%	100%	0%	0%	0	800	740	769	
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	1	803	775	788	
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	800	749	774	
7		रांची RANCHI	0%	100%	0%	0%	0	794	763	781	
8		सासाराम SASARAM	0%	100%	0%	0%	1	805	743	763	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	802	760	781	
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	789	752	770	
3		अजमेर AJMER	0%	99%	1%	1%	5	806	756	784	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	797	758	777	
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	780	767	766	
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	778	757	764	
7		अंता ANTA	0%	100%	0%	0%	0	798	762	779	
8		बलिया BALLIA	0%	100%	0%	0%	0	784	742	760	
9		बारा BARA	0%	100%	0%	0%	0	784	757	768	
10		भादला BHADLA	0%	100%	0%	0%	0	799	735	778	
11		भादला-2 BHADLA-2	0%	100%	0%	0%	0	801	743	779	
12		भिवानी BHIWANI	0%	100%	0%	0%	1	804	765	783	
13		बिकानेर BIKANER	0%	100%	0%	0%	0	798	747	779	
14		बरेली BAREILLY	0%	100%	0%	0%	1	803	749	772	
15		चित्तौड़गढ़ CHITTORGARH	0%	99%	1%	1%	7	806	760	784	
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	801	717	777	
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	794	741	772	
18		घाटमपुर GHATAMPUR	0%	0%	0%	0%	0	0	0	0	
19		ग्रेंटर नोएडा GREATER NOIDA	0%	100%	0%	0%	0	800	759	780	
20		हापड़ HAPUR	0%	100%	0%	0%	0	793	750	772	
21		जवाहरपुर JAWAHARPUR	0%	100%	0%	0%	1	802	748	773	
22		झाटिकां JHATIKARA	0%	100%	0%	0%	0	797	753	777	
23		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	796	737	773	
24		खैरती KHETRI	0%	100%	0%	0%	0	798	747	779	
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	796	753	775	
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	774	747	759	
27		लखनऊ LUCKNOW	0%	100%	0%	0%	0	795	744	767	
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	793	742	767	
29		मेरठ MEERUT	0%	100%	0%	0%	0	798	755	779	
30		मेरठ(UP) MEERUT (UP)	0%	100%	0%	0%	0	795	751	773	
31		मोगा MOGA	0%	100%	0%	0%	1	806	751	779	
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	776	749	759	
33		उरई ORAI	0%	100%	0%	0%	3	806	772	788	
34		फागी PHAGI	0%	100%	0%	0%	1	804	759	782	
35		रामपुर RAMPUR	0%	100%	0%	0%	1	805	746	773	
36		उन्नाव UNNAO	0%	100%	0%	0%	0	792	738	758	
37	वाराणसी VARANASI	0%	100%	0%	0%	0	793	760	774		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	751	771	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	2	805	756	781	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	789	751	770	
4		भुज BHUJ	0%	100%	0%	0%	0	793	750	778	
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	785	750	772	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	782	758	770	
7		बीना BINA	0%	100%	0%	0%	0	798	772	784	
8		बनसकंठा BANASKANTHA	0%	100%	0%	0%	0	800	760	785	
9		चापा CHAMPA	0%	99%	1%	1%	9	804	774	790	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	797	744	776	
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	784	761	771	
12		रायपुर प्रूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	793	766	782	
13		एकतनी EKTUNI	0%	100%	0%	0%	0	791	744	770	
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	799	767	784	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	1	804	746	784	
16		इंदौर INDORE	0%	100%	0%	0%	0	791	746	772	
17		जबलपुर JABALPUR	0%	100%	0%	0%	0	802	776	788	
18		खडवा KHANDWA	0%	100%	0%	0%	0	792	749	773	
19		कोरडी KORADI	0%	100%	0%	0%	0	780	749	764	
20		लाकाडिया LAKADIYA	0%	100%	0%	0%	3	804	757	785	
21		रायगढ़ प्रूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	796	773	785	
22		पड़घे PADGHE	0%	100%	0%	0%	1	806	743	774	
23		परली PARLI	0%	99%	1%	1%	6	808	760	784	
24		पुणे PUNE	0%	100%	0%	0%	1	805	744	774	
25		राजानंदगाँव RAJANANDGAON	0%	100%	0%	0%	1	803	770	787	
26		सासन SASAN	0%	100%	0%	0%	0	787	774	788	
27		सातना SATNA	0%	100%	0%	0%	0	799	771	785	
28		सिवनी SEONI	0%	100%	0%	0%	0	793	761	777	
29		सीपट SIPAT	0%	100%	0%	0%	0	783	760	771	
30		सोलापुर SOLAPUR	0%	99%	1%	1%	8	807	738	785	
31		तिरुवा TIRORA	0%	100%	0%	0%	0	775	753	763	
32		तामनार TAMNAR	0%	100%	0%	0%	0	796	773	784	
33		वडोदरा VADODARA	0%	98%	2%	2%	12	804	746	782	
34		विंध्याचल प्रूलिंग VINHYACHAL PS	0%	100%	0%	0%	0	791	772	780	
35		वर्धा WARDHA	0%	100%	0%	0%	0	803	763	783	
36		वरार WARORA	0%	100%	0%	0%	0	801	757	779	
1	दक्षिणी क्षेत्र SR	अरियलर ARYALUR	0%	100%	0%	0%	0	801	744	773	
2		कडपा CUDDAPAH	0%	98%	2%	2%	17	810	760	785	
3		चिल्कुरीपेट CHILAKALURIPETA	0%	99%	1%	1%	7	812	763	785	
4		कन्नूल KURNOOL	0%	100%	0%	0%	2	808	754	779	
5		महेश्वरम MAHESWARAM	0%	98%	2%	2%	12	815	761	785	
6		निजामाबाद NIZAMABAD	0%	96%	4%	4%	30	817	761	788	
7		नेल्लूर प्रूलिंग NELLORE PS	0%	100%	0%	0%	0	805	755	774	
8		नॉर्थ चेन्नै प्रूलिंग NORTH CHENNAI PS	0%	100%	0%	0%	1	806	730	769	
9		रायचूर RAICHUR	0%	100%	0%	0%	1	805	755	778	
10		श्रीकाकुलम SRIKAKULAM	0%	100%	0%	0%	2	810	756	782	
11		तिरुवलम THIRUVALEM	0%	100%	0%	0%	0	796	745	773	
12		वेमगिरी VEMAGIRI	0%	99%	1%	1%	10	813	757	785	
13		वारंगल WARANGAL	0%	99%	1%	1%	7	811	759	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	419	392	405
3			बांगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	414	396	407
4			बांगागाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	415	398	408
5			इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	420	359	405
6	बर्निहाट BYRNHAT (400 kV)		0%	100%	0%	0%	0	418	406	412	
7	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	416	391	403	
8	अज़ारा AZARA (400 kV)		0%	100%	0%	0%	0	412	399	407	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	414	392	404	
10	न्यू मारियानी NEW MARIANI (400 kV)		0%	100%	0%	0%	0	417	394	405	
11	न्यू कोहिमा NEW KOHIMA (400 kV)		0%	100%	0%	0%	0	420	393	407	
12	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	418	399	407	
13	पूर्वकंचनबारी PK BARI (400 kV)		0%	100%	0%	0%	0	418	361	403	
14	रंगानादी RANGANADI (400 kV)		0%	100%	0%	0%	0	419	388	409	
15	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	0	419	398	408	
16	सुबानासिरी SUBANSIRI (400 kV)		0%	0%	0%	0%	0	0	0	0	
17	सुज्यामनिगर SURJYAMANINAGAR (400 kV)		0%	100%	0%	0%	0	418	361	402	
18	थोबाल THOUBAL (400 kV)		0%	100%	0%	0%	0	415	384	401	

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_May-2024

AGRA_PG ALIPU_PG BACHU_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 SILCR_PG TALCH_PG TCHRN_PG VINDP_PG

