

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

Date: 06-Jan-2025

System Reliability Indices Report for the month of November 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	31	7.75	1.04
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	5	1.25	0.17
3	Import of NR	0	0.00	0.00
4	NEW-SR	0	0.00	0.00
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 DECEMBER 2024

Date of reporting:

06-Jan-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-Dec-24	3.96	77.71	18.33	22.29	5:21	50.00
02-Dec-24	2.71	72.11	25.19	27.89	6:41	50.01
03-Dec-24	3.65	69.27	27.08	30.73	7:22	50.02
04-Dec-24	3.16	81.49	15.35	18.51	4:26	50.00
05-Dec-24	4.49	84.21	11.30	15.79	3:47	49.99
06-Dec-24	6.78	80.29	12.93	19.71	4:43	49.99
07-Dec-24	2.64	81.09	16.27	18.91	4:32	50.00
08-Dec-24	3.85	77.28	18.87	22.72	5:27	50.00
09-Dec-24	8.08	69.49	22.43	30.51	7:19	50.00
10-Dec-24	4.88	78.16	16.96	21.84	5:14	50.00
11-Dec-24	3.29	81.89	14.83	18.11	4:20	50.00
12-Dec-24	2.44	77.19	20.37	22.81	5:28	50.01
13-Dec-24	7.44	77.79	14.77	22.21	5:19	49.99
14-Dec-24	7.66	77.27	15.07	22.73	5:27	49.99
15-Dec-24	4.58	73.07	22.35	26.93	6:27	50.00
16-Dec-24	18.88	65.03	16.09	34.97	8:23	49.97
17-Dec-24	7.59	71.60	20.81	28.40	6:49	50.00
18-Dec-24	6.47	79.97	13.56	20.03	4:48	49.99
19-Dec-24	4.46	78.37	17.18	21.63	5:11	50.00
20-Dec-24	8.52	75.90	15.58	24.10	5:47	49.99
21-Dec-24	8.89	78.84	12.27	21.16	5:04	49.99
22-Dec-24	10.65	76.56	12.79	23.44	5:37	49.98
23-Dec-24	7.96	74.65	17.38	25.35	6:05	49.99
24-Dec-24	2.51	81.20	16.28	18.80	4:30	50.00
25-Dec-24	3.43	79.20	17.37	20.80	4:59	50.00
26-Dec-24	9.00	76.45	14.55	23.55	5:39	49.99
27-Dec-24	0.27	73.77	25.96	26.23	6:17	50.02
28-Dec-24	5.50	76.16	18.34	23.84	5:43	50.00
29-Dec-24	3.04	77.23	19.72	22.77	5:27	50.01
30-Dec-24	1.48	76.55	21.97	23.45	5:37	50.01
31-Dec-24	4.84	70.01	25.15	29.99	7:11	50.01
December 2024	5.58	76.45	17.97	23.55	175:14	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 - दिसम्बर 2024

VOLTAGE PROFILE - December 2024

Date of reporting: 05-Jan-25

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	794	744	770	
2		दरिपली DARLIPALI	0%	100%	0%	0%	0	790	759	774	
3		गया GAYA	0%	100%	0%	0%	0	784	742	766	
4		जैरात JEEARAT	0%	100%	0%	0%	0	778	727	752	
5		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	2	802	767	783	
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	788	739	763	
7		रांची RANCHI	0%	100%	0%	0%	0	797	761	778	
8		सासाराम SASARAM	0%	100%	0%	0%	2	806	736	766	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	744	779	
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	2	802	743	777	
3		अजमेर AJMER	0%	99%	0%	1%	4	804	710	784	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	799	741	777	
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	789	760	775	
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	789	756	773	
7		अन्ता ANTA	0%	100%	0%	0%	0	796	753	778	
8		बलिया BALLIA	0%	100%	0%	0%	0	792	739	767	
9		बारा BARA	0%	100%	0%	0%	0	794	745	771	
10		भोडला BHADLA	0%	100%	0%	0%	0	802	721	778	
11		भोडला-2 BHADLA-2	0%	100%	0%	0%	1	801	703	781	
12		भिवानी BHIWANI	0%	100%	0%	0%	2	804	737	783	
13		बीकानेर BIKANER	0%	100%	0%	0%	1	801	707	782	
14		बरेली BAREILLY	0%	98%	2%	2%	12	813	740	780	
15		चित्तौड़गढ़ CHITTOORGARH	0%	99%	1%	1%	5	804	748	784	
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	803	717	778	
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	795	741	769	
18		घाटमपुर GHATAMPUR	0%	100%	0%	0%	0	794	731	771	
19		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	8	804	744	783	
20		हापड़ HAPUR	0%	99%	0%	1%	5	805	739	779	
21		जाबलपुर JABALHARPUR	0%	100%	0%	0%	0	796	732	770	
22		झाँझार JHAJHARA	0%	100%	0%	0%	0	802	744	778	
23		झारन जीवाहरीस KANPUR GIS	0%	100%	0%	0%	0	794	739	771	
24		खैती KHETRI	0%	100%	0%	0%	1	803	733	782	
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	800	740	776	
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	781	743	762	
27		लखनऊ LUCKNOW	0%	100%	0%	0%	0	802	740	773	
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	791	733	766	
29		मेरठ MEERUT	0%	99%	1%	1%	9	808	744	782	
30		मेरठ(UP) MEERUT (UP)	0%	100%	0%	0%	1	804	738	778	
31		मोगा MOGA	0%	100%	0%	0%	1	804	718	773	
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	784	750	769	
33		उरई ORAI	0%	93%	7%	7%	51	808	754	787	
34		फागी PHAGI	0%	99%	1%	1%	4	803	746	782	
35		रामपुर RAMPUR	0%	89%	8%	8%	61	814	748	786	
36		उन्नाव UNNAO	0%	100%	0%	0%	0	792	743	767	
37		वाराणसी VARANASI	0%	100%	0%	0%	0	791	749	774	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	797	748	775	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	799	741	774	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	796	740	772	
4		भुज BHUJ	0%	100%	0%	0%	1	802	743	777	
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	796	737	771	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	786	748	766	
7		बीना BINA	0%	99%	1%	1%	8	806	752	781	
8		बनसकंठा BANASKANTHA	0%	96%	4%	4%	27	804	745	784	
9		चापा CHAMPA	0%	95%	5%	5%	37	808	767	788	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	799	746	776	
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	791	754	769	
12		रायपुर पोलिंग RAIPUR POOLING	0%	100%	0%	0%	0	792	753	775	
13		एकतनी EKTUNI	0%	100%	0%	0%	0	797	742	772	
14		गदरवाड़ा GADARWARA	0%	98%	2%	2%	14	806	760	784	
15		ग्वालियर GWALIOR	0%	99%	1%	1%	10	806	750	783	
16		इंदौर INDORE	0%	100%	0%	0%	0	795	743	772	
17		जबलपुर JABALPUR	0%	94%	6%	6%	46	810	761	786	
18		खण्डवा KHANDWA	0%	100%	0%	0%	0	797	746	773	
19		कोरडी KORADI	0%	100%	0%	0%	0	787	748	770	
20		लाकाडिया LAKADIYA	0%	93%	1%	1%	8	808	748	783	
21		रायगढ़ पोलिंग RAIGARH POOLING	0%	100%	0%	0%	0	800	768	782	
22		पडरघे PADGHE	0%	99%	1%	1%	8	806	737	778	
23		परली PARLI	0%	99%	1%	1%	4	802	749	781	
24		पुणे PUNE	0%	97%	3%	3%	21	807	742	781	
25		राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	1	802	759	781	
26		सासन SASAN	0%	100%	0%	0%	0	792	760	777	
27		सतना SATNA	0%	98%	2%	2%	12	804	758	784	
28		सिवनी SEONI	0%	100%	0%	0%	1	802	750	776	
29		सीपत SIPAT	0%	100%	0%	0%	0	787	750	767	
30		सोलापुर SOLAPUR	0%	100%	0%	0%	2	802	752	781	
31		तिरुठा TIRORA	0%	100%	0%	0%	0	781	750	767	
32		तामनार TAMNAR	0%	100%	0%	0%	0	797	763	781	
33		वडोदरा VADODARA	0%	98%	2%	2%	12	807	740	780	
34		विंध्याचल पोलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	795	762	780	
35		वर्धा WARDHA	0%	100%	0%	0%	0	798	742	774	
36		वरोरा WARORA	0%	100%	0%	0%	3	803	744	779	
1	दक्षिणी क्षेत्र SR	अरियलर ARIYALUR	0%	100%	0%	0%	0	791	734	768	
2		कुडपा CUDDAPAH	0%	95%	5%	5%	38	809	747	785	
3		चिल्कलीपेट CHILAKALURIPETA	0%	100%	0%	0%	0	799	734	775	
4		कर्नूल KURNOOL	0%	100%	0%	0%	0	798	745	776	
5		महेश्वरम MAHESWARAM	0%	96%	4%	4%	31	809	746	784	
6		निजामाबाद NIZAMABAD	0%	96%	4%	4%	30	811	743	783	
7		नेल्लूर पोलिंग NELLORE PS	0%	100%	0%	0%	0	799	749	777	
8		नॉर्थ चेंनै पोलिंग NORTH CHENNAI PS	0%	100%	0%	0%	0	794	737	771	
9		रायचूर RAICHUR	0%	100%	0%	0%	0	800	747	779	
10		श्रीकाकुलम SRIKAKULAM	0%	100%	0%	0%	0	799	741	774	
11		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	792	736	770	
12		वैमगिरी VEMAGIRI	0%	100%	0%	0%	0	800	739	775	
13		वारंगल WARANGAL	0%	99%	1%	1%	4	805	743	780	
1		पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	412	390	403
2			बिस्वनाथ चरियालि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	419	390	407
3			बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	417	400	409
4			बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	419	401	410
5	इम्फाल IMPHAL (400 kV)		0%	100%	0%	0%	0	415	395	406	
6	बर्निहाट BYRNIHAT (400 kV)		0%	100%	0%	0%	3	421	401	412	
7	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	416	390	405	
8	अज़ारा AZARA (400 kV)		0%	100%	0%	0%	0	412	404	408	
9	मीसा MISA (400 kV)		0%	100%	0%	0%	0	413	391	404	
10	न्यू मीराना NEW MARIANI (400 kV)		0%	100%	0%	0%	0	417	393	407	
11	न्यू कोहिमा NEW KOHIMA (400 kV)		0%	100%	0%	0%	0	417	395	407	
12	पालातना PALATANA (400 kV)		0%	100%	0%	0%	0	412	400	407	
13	पुर्वकचनबाड़ी PK BARI (400 kV)		0%	100%	0%	0%	0	411	392	402	
14	रंगानादी RANGANADI (400 kV)		0%	100%	0%	0%	0	418	388	406	
15	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	0	417	399	409	
16	सुर्ज्यामणिनगर SURJYAMANINAGAR (400 kV)		0%	100%	0%	0%	0	409	393	401	
17	थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	408	408	408		

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_Nov-2024

AGRA_PG ALIPU_PG BACHU_PG BONGA_PG CHDPR_MH DURG4_WB 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

