

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

Date: 05-Nov-2024

System Reliability Indices Report for the month of OCTOBER 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	87	21.75	2.92
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	25	6.25	0.84
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 OCTOBER 2024

Date of reporting:

05-Nov-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-Oct-24	6.37	82.79	10.84	17.21	4:07	50.01
02-Oct-24	2.26	75.31	22.43	24.69	5:55	50.00
03-Oct-24	1.19	80.42	18.39	19.58	4:42	49.99
04-Oct-24	0.64	77.89	21.47	22.11	5:18	50.01
05-Oct-24	4.98	78.11	16.91	21.89	5:15	50.01
06-Oct-24	9.69	78.23	12.08	21.77	5:13	50.01
07-Oct-24	6.55	77.49	15.96	22.51	5:24	50.02
08-Oct-24	9.04	83.11	7.85	16.89	4:03	50.03
09-Oct-24	0.28	81.30	18.43	18.70	4:29	50.01
10-Oct-24	0.58	81.26	18.16	18.74	4:29	50.02
11-Oct-24	5.52	79.46	15.02	20.54	4:55	50.01
12-Oct-24	7.62	71.27	21.11	28.73	6:53	50.01
13-Oct-24	3.16	81.77	15.07	18.23	4:22	50.00
14-Oct-24	1.70	81.34	16.96	18.66	4:28	50.01
15-Oct-24	11.12	80.68	8.19	19.32	4:38	50.02
16-Oct-24	6.47	81.60	11.93	18.40	4:25	50.00
17-Oct-24	6.50	80.06	13.44	19.94	4:47	49.99
18-Oct-24	0.69	80.68	18.62	19.32	4:38	49.96
19-Oct-24	5.38	82.48	12.14	17.52	4:12	49.98
20-Oct-24	2.42	75.98	21.60	24.02	5:45	49.98
21-Oct-24	8.99	79.51	11.49	20.49	4:55	49.99
22-Oct-24	5.06	80.75	14.19	19.25	4:37	49.97
23-Oct-24	1.00	79.63	19.38	20.37	4:53	49.98
24-Oct-24	7.88	72.72	19.40	27.28	6:32	50.01
25-Oct-24	1.61	80.75	17.64	19.25	4:37	50.00
26-Oct-24	3.26	85.19	11.55	14.81	3:33	50.00
27-Oct-24	3.75	87.99	8.26	12.01	2:53	50.00
28-Oct-24	13.11	81.25	5.64	18.75	4:30	49.98
29-Oct-24	6.11	83.48	10.41	16.52	3:57	50.01
30-Oct-24	3.43	88.04	8.53	11.96	2:52	50.00
31-Oct-24	4.19	77.91	17.91	22.09	5:18	50.00
October 2024	4.86	80.27	14.87	19.73	146:46	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 - अक्टूबर 2024

VOLTAGE PROFILE - October 2024

Date of reporting: 05-Nov-24

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	795	758	777
2		दालिपली DALLIPALI	0%	100%	0%	0%	0	791	768	778
3		गया GAYA	0%	100%	0%	0%	0	789	753	770
4		जैरत JEEERAT	0%	100%	0%	0%	0	790	737	762
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	0	801	772	786
6		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	0	789	745	770
7		रांची RANGCHI	0%	100%	0%	0%	0	794	766	781
8		सासाराम SASARAM	0%	100%	0%	0%	1	805	741	769
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	803	756	780
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	794	751	774
3		अजमेर AJMER	0%	100%	0%	0%	3	804	747	784
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	798	747	776
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	784	760	771
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	783	756	769
7		अन्ता ANTA	0%	100%	0%	0%	1	802	764	783
8		बलिया BALLIA	0%	100%	0%	0%	0	790	741	768
9		बारा BARA	0%	100%	0%	0%	0	781	756	767
10		भदला BHADLA	0%	100%	0%	0%	0	805	724	778
11		भदला-2 BHADLA-2	0%	100%	0%	0%	0	805	728	779
12		भिवानी BHIWANI	0%	100%	0%	0%	1	803	744	783
13		बिकानेर BIKANER	0%	100%	0%	0%	1	801	723	781
14		बरौली BAREILLY	0%	100%	0%	0%	2	805	750	776
15		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	3	803	759	784
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	800	718	777
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	798	750	772
18		घाटमपुर GHATAMPUR	0%	100%	0%	0%	0	789	744	767
19		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	1	803	751	780
20		हापड़ HAPUR	0%	100%	0%	0%	0	800	744	775
21		जायसपुर JAWAHARPUR	0%	100%	0%	0%	0	803	749	776
22		जाटिकांठा JHATIKARA	0%	100%	0%	0%	0	787	740	776
23		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	786	751	771
24		कैतरी KHETRI	0%	100%	0%	0%	0	800	736	779
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	803	744	775
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	772	744	760
27		लखनऊ LUCKNOW	0%	100%	0%	0%	0	797	746	771
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	791	742	770
29		मेरठ MEERUT	0%	100%	0%	0%	3	803	743	779
30		मेरठ(UP) MEERUT (UP)	0%	100%	0%	0%	0	798	744	776
31		मोगा MOGA	0%	100%	0%	0%	2	802	728	780
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	779	751	764
33		उरई ORAI	0%	99%	1%	1%	4	808	764	784
34	फाजी PHAGI	0%	100%	0%	0%	0	801	753	782	
35	रामपुर RAMPUR	0%	100%	0%	0%	2	803	756	782	
36	उन्नाव UNNAO	0%	100%	0%	0%	0	784	741	762	
37	वाराणसी VARANASI	0%	100%	0%	0%	0	797	760	775	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	734	772
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	800	744	774
3		भोपाळ (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	782	743	769
4		भुज BHUJ	0%	100%	0%	0%	0	793	749	774
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	785	749	769
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	786	754	770
7		बिना BINA	0%	100%	0%	0%	0	801	757	779
8		बनारस BANASKANTHA	0%	100%	0%	0%	0	801	756	782
9		चापा CHAMPA	0%	97%	3%	3%	25	808	762	790
10		धुल (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	799	749	773
11		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	792	757	775
12		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	796	765	777
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	799	739	772
14		गदरवाड़ा GADARWARA	0%	99%	1%	1%	4	805	766	785
15		ग्वालियर GWALIOR	0%	100%	0%	0%	2	809	759	781
16		इंदौर INDORE	0%	100%	0%	0%	0	794	741	769
17		जबलपुर JABALPUR	0%	100%	1%	1%	8	806	766	786
18		खडवा KHANDWA	0%	100%	0%	0%	0	793	746	771
19		कोरडी KORADI	0%	100%	0%	0%	0	783	743	764
20		लकाडिया LAKADIYA	0%	100%	0%	0%	1	801	755	778
21		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	798	773	785
22		पडुचे PADGHE	0%	100%	0%	0%	0	801	730	771
23		परली PARLI	0%	100%	0%	0%	0	798	756	782
24		पुणे PUNE	0%	100%	0%	0%	1	801	742	776
25		राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	4	806	765	784
26		सासन SASAN	0%	100%	0%	0%	0	796	768	780
27		सतना SATNA	0%	99%	1%	1%	6	805	767	785
28		सेवनी SEONI	0%	100%	0%	0%	1	802	757	781
29		सीपत SIPAT	0%	100%	0%	0%	0	787	756	771
30		सोलापुर SOLAPUR	0%	100%	0%	0%	0	797	759	781
31		तिरोडा TIRODA	0%	100%	0%	0%	0	778	748	763
32		तामनार TAMNAR	0%	100%	0%	0%	0	797	768	782
33		वडोदा VADODARA	0%	100%	0%	0%	0	798	740	771
34		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	800	770	783
35		वर्धा WARDHA	0%	100%	0%	0%	0	802	753	780
36		वरोरा WARORA	0%	100%	0%	0%	2	804	759	783
1	दक्षिणी क्षेत्र SR	अरियलुर ARIYALUR	0%	100%	0%	0%	0	793	749	772
2		कडुपा CUDDAPAH	0%	99%	1%	1%	5	804	752	781
3		चिल्कलुरिपेट CHILAKALURIPETA	0%	100%	0%	0%	3	803	750	781
4		कुरुनूल KURNOOL	0%	99%	1%	1%	10	805	757	781
5		महेश्वरम MAHESWARAM	0%	94%	6%	6%	42	808	765	788
6		निजामाबाद NIZAMABAD	0%	94%	6%	6%	43	805	768	790
7		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	796	757	778
8		नॉर्थ चेन्नई पुलिंग NORTH CHENNAI PS	0%	100%	0%	0%	0	801	751	778
9		रायचूर RAICHUR	0%	100%	0%	0%	0	800	761	781
10		श्रीकाकुलम SRIKAKULAM	0%	100%	0%	0%	0	800	762	783
11		तिरुवलम THIRUVALEM	0%	100%	0%	0%	0	789	737	770
12		वेमगिरी VEMAGIRI	0%	97%	3%	3%	23	802	756	782
13		वारंगल WARANGAL	0%	95%	5%	5%	28	807	765	789
1	पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	411	394	403
2		बिस्वानाथ चरिआलि BISWANATH CHARIALI(400 kV)	0%	100%	0%	0%	0	416	396	406
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	414	401	409
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	403	411
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	416	394	406
6		बर्निहाट BYRNHAT (400 kV)	0%	100%	0%	0%	1	421	403	414
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	410	396	403
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	411	402	407
9		मिशा MISA (400 kV)	0%	100%	0%	0%	0	412	394	404
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	416	399	407
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	418	387	406
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	413	401	407
13		पुबेकचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	413	393	402
14		रंगानदी RANGANADI (400 kV)	0%	100%	0%	0%	0	415	396	407
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	417	396	408
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुन्यामणिनगर SURJAMANINAGAR (400 kV)	0%	100%	0%	0%	0	410	393	402
18		थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	414	392	403

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.t_Vindhyachal_October-2024

- Agra
- Alipurduar
- Bhachau
- Balipara
- Bongaigaon
- Chandrapur
- Durgapur
- Farakha
- Gazuwaka
- Hosur
- Kalwa
- Kishenpur
- Kolar
- Kota
- Korba
- Kozikode
- Patna
- Purnea
- Rihand
- Silchar
- Talcher
- Thrissur
- Unnao
- Vindhyachal

