

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

Date: 05-Feb-2024

System Reliability Indices Report for the month of January 2024

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	74	18.50	2.49
2	ER-NR	1	0.25	0.03
3	Import of NR	10	2.50	0.34
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	36	9.00	1.21
2	ER-NR	0	0.00	0.00
3	Import of NR	3	0.75	0.10
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 JANUARY 2024

Date of reporting:

05-Feb-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-Jan-24	9.03	67.58	23.39	32.42	7:46	50.00
02-Jan-24	8.95	78.51	12.55	21.49	5:09	49.99
03-Jan-24	12.13	78.52	9.35	21.48	5:09	49.97
04-Jan-24	7.95	78.63	13.41	21.37	5:07	49.99
05-Jan-24	9.97	74.66	15.37	25.34	6:04	49.99
06-Jan-24	9.04	69.26	21.70	30.74	7:22	50.00
07-Jan-24	5.42	72.09	22.49	27.91	6:41	50.01
08-Jan-24	10.78	72.09	17.13	27.91	6:41	49.99
09-Jan-24	1.60	72.58	25.82	27.42	6:34	50.02
10-Jan-24	2.67	75.73	21.60	24.27	5:49	50.01
11-Jan-24	0.57	72.53	26.90	27.47	6:35	50.02
12-Jan-24	5.54	74.05	20.41	25.95	6:13	50.00
13-Jan-24	11.40	75.37	13.23	24.63	5:54	49.98
14-Jan-24	8.29	74.56	17.15	25.44	6:06	49.99
15-Jan-24	4.11	78.80	17.09	21.20	5:05	50.00
16-Jan-24	8.78	74.07	17.14	25.93	6:13	49.99
17-Jan-24	9.32	77.22	13.46	22.78	5:28	49.98
18-Jan-24	1.71	81.05	17.23	18.95	4:32	50.01
19-Jan-24	7.92	74.73	17.35	25.27	6:03	49.99
20-Jan-24	3.78	80.13	16.09	19.87	4:46	50.00
21-Jan-24	3.48	79.09	17.43	20.91	5:01	50.01
22-Jan-24	7.42	72.06	20.52	27.94	6:42	50.00
23-Jan-24	9.38	76.83	13.80	23.17	5:33	49.99
24-Jan-24	7.84	79.61	12.56	20.39	4:53	49.99
25-Jan-24	10.25	76.68	13.07	23.32	5:35	49.99
26-Jan-24	5.15	74.80	20.05	25.20	6:02	50.01
27-Jan-24	10.35	71.24	18.41	28.76	6:54	49.99
28-Jan-24	5.95	80.24	13.81	19.76	4:44	50.00
29-Jan-24	2.00	76.27	21.72	23.73	5:41	50.01
30-Jan-24	6.77	83.70	9.53	16.30	3:54	49.99
31-Jan-24	3.24	78.10	18.66	21.90	5:15	50.01
January 2024	6.80	75.83	17.37	24.17	179:48	50.00

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

विद्युत विभव रूपरेखा माह - जनवरी 2024

VOLTAGE PROFILE - JANUARY 2024

Date of reporting: 05-Feb-24

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 (फि.सो.) Maximum(kV)	निम्नतम(फि.सो.) Minimum(kV)	औसत (फि.सो.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	799	748	776	
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	791	764	776	
3		गया GAYA	0%	100%	0%	0%	0	787	740	766	
4		जेरत JEERAT	0%	100%	0%	0%	0	785	732	759	
5		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	1	803	766	784	
6		मिर्जापुर MEDINIPUR	0%	100%	0%	0%	0	787	744	766	
7		रांची RANCHI	0%	100%	0%	0%	0	794	759	778	
8		सासाराम SASARAM	0%	100%	0%	0%	0	779	734	759	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	799	739	776	
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	796	736	771	
3		अजमेर AJMER	0%	100%	0%	0%	0	804	743	777	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	802	737	770	
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	777	747	762	
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	777	749	762	
7		अन्ता ANTA	0%	100%	0%	0%	0	792	722	773	
8		बलिया BALLIA	0%	100%	0%	0%	0	787	734	764	
9		बारा BARA	0%	100%	0%	0%	0	782	751	767	
10		भादला BHADLA	0%	100%	0%	0%	0	797	727	772	
11		भादला-2 BHADLA-2	0%	100%	0%	0%	0	800	747	776	
12		भिवानी BHIWANI	0%	100%	0%	0%	1	802	742	778	
13		बीकानेर BIKANER	0%	100%	0%	0%	0	804	739	774	
14		बरेली BAREILLY	0%	100%	0%	0%	0	801	732	775	
15		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	0	802	751	779	
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	796	750	776	
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	795	740	768	
18		घाटमपुर GHATAMPUR	0%	0%	0%	0%	0	0	0	0	
19		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	0	804	742	776	
20		झांझार JHANSI	0%	100%	0%	0%	1	804	735	774	
21		जवाहरपुर JAWAHARPUR	0%	100%	0%	0%	0	802	741	772	
22		झटिकरा JHATIKARA	0%	100%	0%	0%	0	796	739	773	
23		कानपुर जीआरएस KANPUR GIS	0%	100%	0%	0%	0	792	739	770	
24		खैतरी KHETRI	0%	100%	0%	0%	0	806	744	776	
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	797	739	772	
26		ललितपुर LALITPUR	0%	100%	0%	0%	0	780	737	759	
27		लखनऊ LUCKNOW	0%	100%	0%	0%	0	794	738	771	
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	801	739	771	
29		मेरठ MEERUT	0%	100%	0%	0%	1	802	742	776	
30		मेरठ(UP) MEERUT (UP)	0%	100%	0%	0%	0	802	735	773	
31		मोगा MOGA	0%	100%	0%	0%	1	805	725	768	
32	ओबरा सी OBRA C	0%	100%	0%	0%	0	776	741	756		
33	उरई ORAI	0%	100%	0%	0%	2	804	742	781		
34	फागी PHAGI	0%	100%	0%	0%	0	802	744	775		
35	रामपुर RAMPUR	0%	99%	0%	0%	4	804	717	764		
36	उन्नाव UNNAO	0%	100%	0%	0%	0	789	727	761		
37	वाराणसी VARANASI	0%	100%	0%	0%	0	790	746	772		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	791	751	772	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	797	741	776	
3		भोपाल (बीडीटीसीएच) BHOPAL (BDTCL)	0%	100%	0%	0%	0	792	739	770	
4		भुल BHUL	0%	100%	0%	0%	0	800	750	781	
5		भुल-2 BHUL-2	0%	100%	0%	0%	0	790	750	774	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	783	747	768	
7		बीना BINA	0%	100%	0%	0%	2	800	740	778	
8		बनसकंधा BANASKANTHA	0%	100%	0%	0%	1	801	756	785	
9		चापा CHAMPA	0%	97%	3%	3%	20	805	764	787	
10		धुले (बीडीटीसीएच) DHULE (BDTCL)	0%	100%	0%	0%	0	800	748	774	
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	791	751	772	
12		रायपुर पूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	793	756	780	
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	792	741	770	
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	802	756	783	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	3	803	737	771	
16		इंदौर INDORE	0%	100%	0%	0%	0	794	741	771	
17		जबलपुर JABALPUR	0%	98%	2%	2%	14	806	750	784	
18		खजुरा KHANDESA	0%	100%	0%	0%	0	796	745	773	
19		कोरडी KORADI	0%	100%	0%	0%	0	782	751	768	
20		कन्नडिया KANNADIYA	0%	100%	0%	0%	2	802	757	783	
21		रायगढ़ पूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	799	763	782	
22		पडरु PADRHE	0%	100%	0%	0%	1	806	738	776	
23		पारुली PARULI	0%	99%	1%	1%	4	805	752	781	
24		पुणे PUNE	0%	100%	0%	0%	3	808	740	779	
25		राजनन्दागंवा RAJNANDGAON	0%	100%	0%	0%	3	803	757	785	
26		सासन SASAN	0%	100%	0%	0%	0	789	755	775	
27		सतना SATNA	0%	100%	0%	0%	2	801	751	782	
28		सिवनी SEONI	0%	100%	0%	0%	0	793	740	773	
29		सीपत SIPAT	0%	100%	0%	0%	0	782	751	769	
30		सोलापुर SOLAPUR	0%	99%	1%	1%	9	805	752	784	
31		तिरुंगा TIROGA	0%	100%	0%	0%	0	775	753	765	
32		तामनार TAMNAR	0%	100%	0%	0%	0	796	765	781	
33		वडोदरा VADODARA	0%	100%	0%	0%	1	803	742	776	
34		विन्ध्यचल पूलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	793	759	779	
35		वर्धा WARDHA	0%	100%	0%	0%	1	802	743	781	
36		वराण WARORA	0%	100%	0%	0%	0	800	746	782	
1	दक्षिणी क्षेत्र SR	अरियालुर ARIYALUR	1%	99%	1%	1%	9	809	716	766	
2		कडपा CUDDAPAH	0%	94%	6%	6%	43	811	742	784	
3		चिल्कलुरीपेट CHILAKALURIPETA	0%	100%	0%	0%	3	805	735	775	
4		कुरुल KURNOOL	0%	100%	0%	0%	8	802	751	776	
5		महेश्वरम MAHESHWARAM	0%	89%	11%	11%	81	815	742	785	
6		निजामाबाद NIZAMABAD	0%	80%	20%	20%	148	817	741	788	
7		नेल्लोर पूलिंग NELLORE PS	0%	100%	0%	0%	0	793	741	774	
8		नॉर्थ चेन्नई पूलिंग NORTH CHENNAI PS	0%	85%	15%	15%	114	821	731	783	
9		रायचूर RAICHUR	0%	100%	0%	0%	2	802	744	779	
10		श्रीकाकुलम SRIKAKULAM	0%	98%	2%	2%	17	807	743	783	
11		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	1	803	732	774	
12		वेमगिरी VEMAGIRI	0%	98%	2%	2%	19	809	741	779	
13		वारंगल WARANGAL	0%	98%	2%	2%	17	808	741	783	
1		पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	89%	7%	7%	53	429	395	410
2			बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	418	398	409
3			बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	420	400	410
4			बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	396	406
5			इम्फाल IMPHAL (400 kV)	0%	98%	2%	2%	12	422	403	412
6	बर्निहाट BYRNihat (400 kV)		0%	100%	0%	0%	0	416	390	404	
7	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	402	393	398	
8	अज़ारा AZARA (400 kV)		0%	100%	0%	0%	0	415	392	403	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	419	395	407	
10	न्यू मरियानी NEW MARIANI (400 kV)		0%	0%	0%	0%	0	0	0	0	
11	न्यू कोहिमा NEW KOHIMA (400 kV)		0%	100%	0%	0%	0	416	401	407	
12	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	414	393	402	
13	पुर्बोचान्तरी PK BARI (400 kV)		0%	96%	4%	4%	29	424	392	410	
14	रंगानादी RANGANADI (400 kV)		0%	100%	0%	0%	0	419	399	409	
15	सिलचर SILCHAR (400 kV)		0%	0%	0%	0%	0	0	0	0	
16	सुबान्सिरी SUBANSIRI (400 kV)		0%	100%	0%	0%	0	412	393	401	
17	सुन्चामनिनगर SURJAMANINAGAR (400 kV)		0%	100%	0%	0%	0	418	394	406	
18	थोबाल THOUBAL (400 kV)		0%	100%	0%	0%	0	414	390	402	

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_Jan-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 RHNHV_PG SILCR_PG TALCH_PG TCHRN_PG VINDP_PG

