

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

Date: **03-Feb-2023**

System Reliability Indices Report for the month of January 2023

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	0	0.00	0.00
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	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	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 2023

Date of reporting:

03-Feb-23

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-23	9.18	56.76	34.06	43.24	10:22	50.02
02-Jan-23	16.64	56.67	26.69	43.33	10:24	49.99
03-Jan-23	16.45	61.57	21.98	38.43	9:13	49.98
04-Jan-23	10.65	51.61	37.74	48.39	11:36	50.01
05-Jan-23	13.30	62.96	23.74	37.04	8:53	49.99
06-Jan-23	30.59	55.23	14.18	44.77	10:44	49.94
07-Jan-23	22.59	58.48	18.92	41.52	9:57	49.97
08-Jan-23	4.91	67.37	27.72	32.63	7:49	50.01
09-Jan-23	29.92	48.00	22.08	52.00	12:28	49.94
10-Jan-23	16.76	56.75	26.49	43.25	10:22	49.99
11-Jan-23	11.86	64.06	24.07	35.94	8:37	49.99
12-Jan-23	8.63	60.03	31.33	39.97	9:35	50.01
13-Jan-23	17.47	58.36	24.18	41.64	9:59	49.98
14-Jan-23	8.21	55.19	36.61	44.81	10:45	50.02
15-Jan-23	3.09	56.26	40.65	43.74	10:29	50.04
16-Jan-23	2.05	58.17	39.78	41.83	10:02	50.04
17-Jan-23	11.01	58.41	30.58	41.59	9:58	50.01
18-Jan-23	14.85	63.22	21.93	36.78	8:49	49.99
19-Jan-23	17.31	56.16	26.53	43.84	10:31	49.98
20-Jan-23	30.39	46.34	23.26	53.66	12:52	49.95
21-Jan-23	5.21	68.78	26.01	31.22	7:29	50.01
22-Jan-23	7.05	64.88	28.07	35.12	8:25	50.01
23-Jan-23	4.27	63.50	32.23	36.50	8:45	50.03
24-Jan-23	17.26	60.86	21.89	39.14	9:23	49.98
25-Jan-23	4.76	58.31	36.93	41.69	10:00	50.03
26-Jan-23	11.86	61.16	26.98	38.84	9:19	50.00
27-Jan-23	8.92	60.87	30.21	39.13	9:23	50.02
28-Jan-23	10.79	63.07	26.15	36.93	8:51	49.99
29-Jan-23	18.70	52.57	28.73	47.43	11:23	50.00
30-Jan-23	12.74	60.59	26.67	39.41	9:27	49.99
31-Jan-23	15.02	53.51	31.47	46.49	11:09	50.00
January 2023	13.30	58.70	28.00	41.30	307:16	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 2023

VOLTAGE PROFILE - JANUARY 2023

Date of reporting: 03-Feb-23

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.वॉ.) Maximum(kV)	निम्नतम(कि.वॉ.) Minimum(kV)	औसत (कि.वॉ.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	790	733	767	
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	789	756	775	
3		गया GAYA	0%	100%	0%	0%	0	788	753	770	
4		जौरत JERAT	0%	100%	0%	0%	0	787	720	758	
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	0	801	761	782	
6		मिदिनपुर MEDINIPUR	0%	100%	0%	0%	0	790	744	767	
7		रान्ची RANCHI	0%	100%	0%	0%	0	795	762	781	
8		सासाराम SASARAM	0%	100%	0%	0%	0	811	744	767	
1		उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	803	749	778
2			आगरा (फतेहगढ़) AGRA (FATEHABAD)	0%	100%	0%	0%	0	803	742	772
3	अजमेर AJMER		0%	99%	1%	1%	8	814	737	779	
4	अलीगढ़ ALIGARH		0%	100%	0%	0%	0	802	746	776	
5	अनूपरा सी ANPARA-C		0%	100%	0%	0%	0	776	754	763	
6	अनूपरा डी ANPARA-D		0%	100%	0%	0%	0	775	749	762	
7	अन्ता ANTA		0%	100%	0%	0%	0	808	742	776	
8	बलिया BALLIA		0%	100%	0%	0%	0	787	744	766	
9	बारा BARA		0%	100%	0%	0%	0	796	751	772	
10	भाडला BHADLA		0%	100%	0%	0%	3	814	700	772	
11	भाडला-2 BHADLA-2		0%	99%	1%	1%	5	810	711	773	
12	भिवानी BHIWANI		0%	100%	0%	0%	4	809	747	781	
13	बीकानेर BIKANER		0%	99%	1%	1%	4	806	713	781	
14	बरेली BAREILLY		0%	98%	2%	2%	12	808	747	779	
15	चित्तौड़गढ़ CHITTORGARH		0%	100%	0%	0%	2	805	741	780	
16	फतेहगढ़-2 FATEHGARH-2		0%	100%	0%	0%	3	810	712	771	
17	फतेहपुर FATEHPUR		0%	100%	0%	0%	0	792	742	769	
18	ग्रेटर नोइडा GREATER NOIDA		0%	99%	1%	1%	10	806	751	783	
19	हाथरस HATHRAS		0%	99%	1%	1%	8	804	743	781	
20	जाहानपुर JAWAHARPUR		0%	0%	0%	0%	0	0	0	0	
21	झाड़कपुर JHATIKARA		0%	100%	0%	0%	0	802	742	775	
22	कानपुर जीआरएस KANPUR GIS		0%	100%	0%	0%	0	799	746	772	
23	खैतरी KHETRI		0%	100%	0%	0%	1	807	744	777	
24	कोटेश्वर KOTESHWAR		0%	100%	0%	0%	0	797	732	772	
25	ललितपुर LALITPUR		0%	100%	0%	0%	0	780	738	760	
26	लखनऊ LUCKNOW		0%	100%	0%	0%	0	798	746	773	
27	मैनपुरी MAINPURI		0%	100%	0%	0%	2	807	748	780	
28	मेरठ MEERUT		0%	99%	1%	1%	5	805	742	780	
29	मोगा MOGA		0%	100%	0%	0%	2	806	725	771	
30	ओबरा सी OBRA C		0%	0%	0%	0%	0	0	0	0	
31	उई ORAI	0%	99%	1%	1%	7	805	758	785		
32	फागी PHAGI	0%	100%	0%	0%	2	812	736	778		
33	उन्नाव UNNAO	0%	100%	0%	0%	0	787	731	760		
34	वाराणसी VARANASI	0%	100%	0%	0%	0	793	757	775		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	802	745	773	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	803	739	775	
3		भोपाल (बीडीटीसीएच) BHOPAL (BDTCL)	0%	100%	0%	0%	0	795	740	774	
4		भुज BHUJ	0%	100%	0%	0%	0	800	744	773	
5		भुज-2 BHUJ-2	0%	100%	0%	0%	0	804	743	772	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	787	751	771	
7		बीना BINA	0%	100%	0%	0%	2	802	751	780	
8		बनारसकांठा BANASKANTHA	0%	100%	0%	0%	0	801	751	780	
9		चांपा CHAMPA	0%	95%	5%	5%	39	805	762	789	
10		धुले (बीडीटीसीएच) DHULE (BDTCL)	0%	100%	0%	0%	0	799	742	776	
11		धर्मजयगढ़ DHARAMJAI GARH	0%	100%	0%	0%	0	791	752	773	
12		रायपुर पोलिंग RAIPUR POOLING	0%	100%	0%	0%	0	796	756	779	
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	792	735	770	
14		गदरवाड़ा GADARWARA	0%	99%	1%	1%	4	800	764	783	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	3	806	755	781	
16		इंदौर INDORE	0%	100%	0%	0%	0	794	738	773	
17		जबलपुर JABALPUR	0%	96%	4%	4%	30	808	760	786	
18		खडवा KHANDWA	0%	100%	0%	0%	0	798	743	775	
19		कोरडी KORADI	0%	100%	0%	0%	0	789	748	769	
20		लकडिया LAKADIYA	0%	99%	1%	1%	5	803	757	784	
21		ससांग पोलिंग RAIGARH POOLING	0%	100%	0%	0%	3	801	763	786	
22		पाडगे PADGHE	0%	99%	1%	1%	5	814	734	779	
23		पार्ली PARLI	0%	100%	0%	0%	0	798	742	776	
24		पुणे PUNE	0%	99%	1%	1%	9	812	735	779	
25		राजनंदगांव RAJNANDGAON	0%	99%	1%	1%	7	806	759	785	
26		सासन SASAN	0%	100%	0%	0%	0	792	766	778	
27		सतना SATNA	0%	100%	0%	0%	2	802	766	784	
28		सिवनी SEONI	0%	100%	0%	0%	0	795	745	773	
29		सीपत SIPAT	0%	100%	0%	0%	0	786	755	772	
30		सोलापुर SOLAPUR	0%	100%	0%	0%	1	804	741	779	
31		तिरोडा TIRODA	0%	100%	0%	0%	0	780	747	766	
32		तामनार TAMNAR	0%	100%	0%	0%	0	800	766	785	
33		वडोदरा VADODARA	0%	97%	3%	3%	22	807	737	782	
34		विंध्याचल पोलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	798	769	782	
35		वर्धा WARDHA	0%	100%	0%	0%	0	803	739	778	
36		वरौरा WARORA	0%	100%	0%	0%	0	799	749	778	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	87%	13%	13%	94	815	743	785	
2		चिल्कलरीपेट CHILAKALURIPETA	0%	93%	7%	7%	51	816	733	780	
3		कुरनूल KURNOOL	0%	100%	0%	0%	0	798	737	774	
4		महेश्वर MAHESHWARAM	0%	96%	4%	4%	28	811	725	777	
5		निजामाबाद NIZAMABAD	0%	89%	11%	11%	84	820	730	785	
6		नेल्लोर पोलिंग NELLORE PS	0%	100%	0%	0%	0	800	742	775	
7		रायचूर RAICHUR	0%	100%	0%	0%	0	800	741	776	
8		श्रीकाकुलम SRIKAKULAM	0%	97%	3%	3%	23	807	741	779	
9		थिरुवल्लम THIRUVALEM	0%	100%	0%	0%	3	803	725	772	
10		वेमगिरी VEMAGIRI	0%	87%	13%	13%	98	814	730	783	
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	418	395	406	
3		बोंगाईगांव BONGAIGON (400 kV)	0%	100%	0%	0%	0	418	401	409	
4		बोंगाईगांव टीपीएस BONGAIGON TPS (400 kV)	0%	99%	1%	1%	5	421	404	412	
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	1	422	395	408	
6		बर्निहाट BYRNihat (400 kV)	0%	100%	0%	0%	0	420	398	411	
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	414	394	403	
8		अजरा AZARA (400 kV)	0%	100%	0%	0%	0	414	404	409	
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	415	395	405	
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	419	395	407	
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	1	422	392	408	
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	415	399	406	
13		पुर्बचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	415	394	403	
14		रंगानादी RANGANADI (400 kV)	0%	94%	6%	6%	46	425	402	413	
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	424	399	408	
16		सुबान्सिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0	
17		सुरज्यामनिनगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	413	393	401	
18		थोउबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	414	351	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_Jan-2023

AGRA_PG ALIPU_PG BACHU_PG BALIP_PG BONGA_PG CHDPR_MH DURGA_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 UNNAO_UP VINDP_PG

