

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

Date: 03-Mar-2023

**System Reliability Indices Report for the month of February 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	1	0.25	0.04
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	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 FEBRUARY 2023

Date of reporting:

03-Mar-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-Feb-23	9.76	59.75	30.50	40.25	9:39	50.02
02-Feb-23	13.81	65.02	21.17	34.98	8:23	49.99
03-Feb-23	14.13	58.81	27.06	41.19	9:53	49.98
04-Feb-23	12.56	65.08	22.36	34.92	8:22	50.01
05-Feb-23	7.58	61.13	31.28	38.87	9:19	49.99
06-Feb-23	13.95	57.70	28.36	42.30	10:09	49.94
07-Feb-23	20.56	59.39	20.06	40.61	9:44	49.97
08-Feb-23	10.02	68.87	21.11	31.13	7:28	50.01
09-Feb-23	6.32	59.91	33.77	40.09	9:37	49.94
10-Feb-23	6.11	63.84	30.05	36.16	8:40	49.99
11-Feb-23	15.03	67.60	17.36	32.40	7:46	49.99
12-Feb-23	1.30	49.81	48.89	50.19	12:02	50.01
13-Feb-23	6.75	66.49	26.76	33.51	8:02	49.98
14-Feb-23	17.64	65.90	16.46	34.10	8:11	50.02
15-Feb-23	14.20	66.42	19.38	33.58	8:03	50.04
16-Feb-23	13.72	64.16	22.13	35.84	8:36	50.04
17-Feb-23	7.33	66.68	26.00	33.32	7:59	49.95
18-Feb-23	10.44	71.44	18.13	28.56	6:51	50.01
19-Feb-23	3.04	67.85	29.11	32.15	7:43	50.01
20-Feb-23	8.45	65.29	26.26	34.71	8:19	50.03
21-Feb-23	14.28	73.53	12.19	26.47	6:21	49.98
22-Feb-23	8.33	69.10	22.57	30.90	7:25	50.03
23-Feb-23	5.37	70.02	24.61	29.98	7:11	50.00
24-Feb-23	15.73	62.30	21.97	37.70	9:02	50.02
25-Feb-23	10.88	67.65	21.47	32.35	7:45	49.99
26-Feb-23	6.88	66.74	26.39	33.26	7:59	50.00
27-Feb-23	13.33	66.00	20.67	34.00	8:09	49.99
28-Feb-23	13.61	64.44	21.94	35.56	8:32	50.00
<b>February 2023</b>	<b>10.75</b>	<b>64.68</b>	<b>24.57</b>	<b>35.32</b>	<b>237:22</b>	<b>50.00</b>

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

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.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	744	773
2		दरिलिपली DARLIPALI	0%	100%	0%	0%	0	792	759	779
3		गया GAYA	0%	100%	0%	0%	0	785	751	767
4		जीरत JEEERAT	0%	100%	0%	0%	0	785	732	759
5		झारसुगुडा JHARSUGUDA	0%	100%	0%	0%	2	803	764	787
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	788	746	768
7		रांची RANCHI	0%	100%	0%	0%	0	793	762	781
8		सासाराम SASARAM	0%	100%	0%	0%	0	797	746	768
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	803	746	777
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	795	743	772
3		अजमेर AJMER	0%	100%	0%	0%	3	806	741	779
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	800	746	776
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	776	756	764
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	777	754	763
7		अंता ANTA	0%	100%	0%	0%	0	800	751	778
8		बलिया BALLIA	0%	100%	0%	0%	0	786	743	765
9		बारा BARA	0%	100%	0%	0%	0	784	749	769
10		भाड़ला BHADLA	0%	100%	0%	0%	3	810	695	772
11		भाड़ला-2 BHADLA-2	0%	100%	0%	0%	2	829	707	772
12		भिवानी BHIWANI	0%	100%	0%	0%	2	804	740	779
13		बिकानेर BIKANER	0%	100%	0%	0%	1	808	723	772
14		बरेली BAREILLY	0%	99%	1%	1%	6	805	746	779
15		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	1	801	744	778
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	3	829	704	771
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	796	743	769
18		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	6	805	748	782
19		हापड़ HAPUR	0%	100%	0%	0%	2	802	743	780
20		जावाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
21		झाटिकर JHATIKARA	0%	100%	0%	0%	0	799	744	775
22		कानपुर जीआईएस KANPUR GIS	0%	100%	0%	0%	0	794	748	772
23		खैरती KHETRI	0%	100%	0%	0%	1	802	735	775
24		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	795	743	772
25		ललितपुर LALITPUR	0%	100%	0%	0%	0	778	737	758
26		लखनऊ LUCKNOW	0%	100%	0%	0%	0	798	743	773
27		मैनपुरी MAINPURI	0%	100%	0%	0%	0	802	751	780
28		मेरठ MEERUT	0%	100%	0%	0%	2	805	744	781
29		मोगा MOGA	0%	100%	0%	0%	1	803	725	770
30		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
31		उरई ORAI	0%	98%	2%	2%	13	808	761	785
32		फागी PHAGI	0%	100%	0%	0%	1	804	736	778
33	उन्नाव UNNAO	0%	100%	0%	0%	0	787	732	763	
34	वाराणसी VARANASI	0%	100%	0%	0%	0	794	754	775	
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	795	748	772
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	799	746	776
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	790	744	771
4		भुज BHUJ	0%	100%	0%	0%	0	796	745	774
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	793	748	772
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	788	748	770
7		बीना BINA	0%	100%	0%	0%	0	800	757	780
8		बनसकंठा BANASKANTHA	0%	100%	0%	0%	2	804	751	780
9		चांपा CHAMPA	0%	97%	3%	3%	20	807	767	791
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	796	747	774
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	792	753	775
12		रायपुर पलिंग RAIPUR POOLING	0%	100%	0%	0%	0	798	757	781
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	793	740	767
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	801	764	784
15		ग्वालियर GWALIOR	0%	99%	1%	1%	4	806	753	781
16		इंदौर INDORE	0%	100%	0%	0%	0	796	746	772
17		जबलपुर JABALPUR	0%	99%	1%	1%	4	804	763	787
18		खंडवा KHANDWA	0%	100%	0%	0%	0	798	749	774
19		कोरडी KORADI	0%	100%	0%	0%	0	781	753	767
20		लकाडिया LAKADIYA	0%	99%	1%	1%	8	808	760	785
21		रायगढ़ पलिंग RAIGARH POOLING	0%	100%	0%	0%	0	802	769	787
22		पडघे PADGHE	0%	99%	1%	1%	4	806	746	778
23		परली PARLI	0%	100%	0%	0%	1	805	748	779
24		पुणे PUNE	0%	99%	1%	1%	6	810	742	778
25		राजनन्दगांव RAJNANDGAON	0%	99%	1%	1%	5	805	761	786
26		सासन SASAN	0%	100%	0%	0%	0	793	765	779
27		सतना SATNA	0%	100%	0%	0%	0	800	766	784
28		सिवनी SEONI	0%	100%	0%	0%	0	791	745	772
29		सीपत SIPAT	0%	100%	0%	0%	0	786	752	771
30		सोलापुर SOLAPUR	0%	100%	0%	0%	3	806	751	782
31		तिरोडा TIRORA	0%	100%	0%	0%	0	775	755	764
32		तामनार TAMNAR	0%	100%	0%	0%	0	800	770	786
33		वाडोदरा VADODARA	0%	99%	1%	1%	4	803	756	781
34		विंध्याचल पलिंग VINHYACHAL PS	0%	100%	0%	0%	0	796	769	782
35		वर्धा WARDHA	0%	100%	0%	0%	1	804	748	778
36	वरीसत WARORA	0%	100%	0%	0%	0	799	749	779	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	91%	9%	9%	59	815	749	783
2		चिल्कलुरीपेट CHILAKALURIPETA	0%	92%	8%	8%	56	815	742	780
3		कूर्नूल KURNOOL	0%	100%	0%	0%	0	799	740	771
4		महेश्वरम MAHESWARAM	0%	94%	6%	6%	41	811	728	772
5		निजामाबाद NIZAMABAD	0%	90%	10%	10%	69	819	743	780
6		नेल्लूर पलिंग NELLORE PS	0%	100%	0%	0%	0	794	743	771
7		रायचूर RAICHUR	0%	100%	0%	0%	0	800	745	775
8		श्रीकाकुलम SRIKAKULAM	0%	99%	1%	1%	8	807	745	780
9		तिरुवलम THIRUVALEM	0%	100%	0%	0%	3	810	739	771
10		वेमगिरी VEMAGIRI	0%	95%	5%	5%	33	812	748	781
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	413	357	400
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	418	398	408
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	420	397	409
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	421	398	411
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	416	392	403
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	405	392	399
9		मीसा MISA (400 kV)	0%	100%	0%	0%	0	418	393	404
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	417	396	407
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	420	396	409
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	415	401	407
13		पूर्वकंचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	414	394	403
14		रंगानादी RANGANADI (400 kV)	0%	98%	2%	2%	12	423	397	410
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	421	400	409
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	411	394	402
18		थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	414	383	399

All listed stations are 765 kV stations unless otherwise mentioned  
\*Percentage is calculated w.r.t. Time of one month.

# Monthly All India Angular spread w.r.to Vindhyachal\_Feb-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

