

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

Date: **05-Jan-2023**

System Reliability Indices Report for the month of December 2022

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 DECEMBER 2022

Date of reporting:

05-Jan-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-Dec-22	12.20	73.81	13.99	26.19	6:17	49.98
02-Dec-22	17.78	70.75	11.47	29.25	7:01	49.97
03-Dec-22	6.89	75.75	17.36	24.25	5:49	50.00
04-Dec-22	8.07	62.94	28.99	37.06	8:53	50.01
05-Dec-22	3.75	61.62	34.63	38.38	9:12	50.03
06-Dec-22	13.30	51.40	35.30	48.60	11:39	50.01
07-Dec-22	17.36	54.79	27.85	45.21	10:51	49.99
08-Dec-22	8.67	56.97	34.36	43.03	10:19	50.01
09-Dec-22	8.61	54.53	36.86	45.47	10:54	50.02
10-Dec-22	21.44	44.04	34.53	55.96	13:25	50.00
11-Dec-22	11.20	55.07	33.73	44.93	10:47	50.01
12-Dec-22	16.09	54.98	28.94	45.02	10:48	50.00
13-Dec-22	11.91	55.42	32.67	44.58	10:42	50.01
14-Dec-22	9.29	60.86	29.85	39.14	9:23	50.01
15-Dec-22	14.87	57.34	27.79	42.66	10:14	50.00
16-Dec-22	26.28	48.89	24.83	51.11	12:16	49.96
17-Dec-22	11.22	57.88	30.90	42.12	10:06	50.01
18-Dec-22	10.27	57.42	32.31	42.58	10:13	50.02
19-Dec-22	15.38	59.56	25.06	40.44	9:42	49.99
20-Dec-22	20.71	45.05	34.25	54.95	13:11	50.00
21-Dec-22	7.29	54.31	38.40	45.69	10:58	50.03
22-Dec-22	7.11	56.71	36.18	43.29	10:23	50.03
23-Dec-22	13.77	54.20	32.03	45.80	10:59	50.02
24-Dec-22	18.91	49.84	31.25	50.16	12:02	50.00
25-Dec-22	13.87	44.06	42.07	55.94	13:25	50.02
26-Dec-22	11.26	53.21	35.53	46.79	11:13	50.03
27-Dec-22	17.55	48.28	34.18	51.72	12:24	50.02
28-Dec-22	6.91	72.40	20.69	27.60	6:37	50.00
29-Dec-22	18.87	63.04	18.09	36.96	8:52	49.97
30-Dec-22	7.67	58.54	33.78	41.46	9:57	50.01
31-Dec-22	7.79	65.38	26.83	34.62	8:18	50.01
December 2022	12.78	57.39	29.83	42.61	317:02	50.00

*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.वॉ.) Maximum(kV)	निम्नतम(कि.वॉ.) Minimum(kV)	औसत (कि.वॉ.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	1	803	738	769	
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	797	754	775	
3		नया GAYA	0%	100%	0%	0%	0	790	748	769	
4		जौरत JERAT	0%	100%	0%	0%	0	786	729	756	
5		झारसुगुडा JHARSUGUDA	0%	99%	1%	1%	4	806	760	783	
6		मिदिनपुर MEDINIPUR	0%	100%	0%	0%	0	789	744	767	
7		रान्ची RANCHI	0%	100%	0%	0%	0	795	758	780	
8		सासाराम SASARAM	0%	100%	0%	0%	0	796	733	763	
1		उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	803	745	778
2			आगरा (फतेहगढ़) AGRA (FATEHABAD)	0%	100%	0%	0%	0	794	739	772
3	अजमेर AJMER		0%	100%	0%	0%	3	807	746	779	
4	अलीगढ़ ALIGARH		0%	100%	0%	0%	0	798	741	776	
5	अनूपरा सी ANPARA-C		0%	100%	0%	0%	0	775	752	764	
6	अनूपरा डी ANPARA-D		0%	100%	0%	0%	0	774	747	763	
7	अन्ता ANTA		0%	100%	0%	0%	0	796	753	778	
8	बलिया BALLIA		0%	100%	0%	0%	0	793	737	768	
9	बारा BARA		0%	100%	0%	0%	0	788	753	772	
10	भाडला BHADLA		0%	100%	0%	0%	2	817	710	774	
11	भाडला-2 BHADLA-2		0%	99%	1%	1%	7	810	733	775	
12	भिवानी BHIWANI		0%	100%	0%	0%	1	803	749	780	
13	बीकानेर BIKANER		0%	100%	0%	0%	3	809	739	775	
14	बरौली BAREILLY		0%	98%	2%	2%	12	805	745	780	
15	चित्तौड़गढ़ CHITTORGARH		0%	100%	0%	0%	3	808	748	780	
16	फतेहगढ़-2 FATEHGARH-2		0%	100%	0%	0%	3	811	710	773	
17	फतेहपुर FATEHPUR		0%	100%	0%	0%	0	793	732	769	
18	ग्रेटर नोइडा GREATER NOIDA		0%	99%	1%	1%	7	803	746	783	
19	हावड़ा HAUDA		0%	100%	0%	0%	4	804	741	781	
20	जाहानपुर JAWAHARPUR		0%	0%	0%	0%	0	0	0	0	
21	झाड़कपुर JHATIKARA		0%	100%	0%	0%	0	799	742	775	
22	कानपुर जे.आर.एस. KANPUR GIS		0%	100%	0%	0%	0	793	736	772	
23	खैतरी KHETRI		0%	99%	1%	1%	8	807	742	777	
24	कोटेश्वर KOTESHWAR		0%	100%	0%	0%	0	797	736	773	
25	ललितपुर LALITPUR		0%	100%	0%	0%	0	771	742	759	
26	लखनऊ LUCKNOW		0%	100%	0%	0%	0	796	742	773	
27	मैनपुरी MAINPURI		0%	100%	0%	0%	2	807	747	781	
28	मेरठ MEERUT		0%	100%	0%	0%	2	804	741	779	
29	मोगा MOGA		0%	100%	0%	0%	3	807	740	771	
30	ओबरा सी OBRA C		0%	0%	0%	0%	0	0	0	0	
31	उरई ORAI	0%	100%	0%	0%	3	804	754	784		
32	फागी PHAGI	0%	100%	0%	0%	1	804	734	778		
33	उन्नाव UNNAO	0%	100%	0%	0%	0	786	728	761		
34	वाराणसी VARANASI	0%	100%	0%	0%	0	792	750	775		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	746	772	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	801	739	774	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	800	737	770	
4		भुज BHUJ	0%	100%	0%	0%	0	797	741	772	
5		भुज-2 BHUJ-1	0%	100%	0%	0%	0	797	744	770	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	787	748	771	
7		बीना BINA	0%	100%	0%	0%	0	801	746	778	
8		बनारसकांठा BANASKANTHA	0%	100%	0%	0%	3	808	750	779	
9		चांपा CHAMPA	0%	91%	9%	9%	64	810	757	788	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	1	802	737	774	
11		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	795	749	772	
12		रायपुर पूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	799	751	778	
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	792	741	768	
14		गदरवाड़ा GADARWARA	0%	99%	1%	1%	6	807	757	782	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	1	802	748	781	
16		इंदौर INDORE	0%	100%	0%	0%	0	801	737	771	
17		जबलपुर JABALPUR	0%	99%	1%	1%	11	809	757	784	
18		खडवा KHANDWA	0%	100%	0%	0%	1	801	739	774	
19		कोरडी KORADI	0%	100%	0%	0%	0	788	749	768	
20		लखडिया LAKADIYA	0%	99%	1%	1%	7	805	754	781	
21		ससांग पूलिंग RAIGARH POOLING	0%	100%	0%	0%	2	801	757	785	
22		पाडर पाडगे PADGE	0%	99%	1%	1%	6	809	735	777	
23		पारुली PARULI	0%	100%	0%	0%	1	802	745	777	
24		पुणे PUNE	0%	99%	1%	1%	4	807	732	777	
25		राजनंदगांव RAJNANDGAON	0%	96%	4%	4%	26	807	752	785	
26		सासन SASAN	0%	100%	0%	0%	0	790	760	777	
27		सतना SATNA	0%	100%	0%	0%	0	800	758	782	
28		सिवनी SEONI	0%	100%	0%	0%	0	797	740	773	
29		सीपत SIPAT	0%	100%	0%	0%	0	788	752	772	
30		सोलापुर SOLAPUR	0%	100%	0%	0%	2	804	744	778	
31		तिरुंगा TIRORA	0%	100%	0%	0%	0	788	748	766	
32		तामनार TAMNAR	0%	100%	0%	0%	0	801	761	784	
33		वडोदरा VADODARA	0%	100%	0%	0%	0	801	734	775	
34		विंध्याचल पूलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	792	764	780	
35		वर्धा WARDHA	0%	99%	1%	1%	10	806	739	778	
36		वरौरा WARORA	0%	100%	0%	0%	0	800	747	776	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	89%	11%	11%	84	811	750	783	
2		चिल्कलरीपेट CHILAKALURIPETA	0%	96%	4%	4%	27	809	731	774	
3		कुरील KURNOOL	0%	100%	0%	0%	0	798	741	773	
4		महेश्वर MAHESHWARAM	0%	97%	3%	3%	23	813	721	776	
5		निजामाबाद NIZAMABAD	0%	81%	19%	19%	139	816	724	783	
6		नेल्लोर पूलिंग NELLORE PS	0%	100%	0%	0%	0	798	744	774	
7		रायचूर RAICHUR	0%	100%	0%	0%	0	801	744	775	
8		श्रीकाकुलम SRIKAKULAM	0%	94%	6%	6%	42	811	735	776	
9		थिरुवल्लम THIRUVALLEM	0%	100%	0%	0%	3	802	734	770	
10		वेमगिरी VEMAGIRI	0%	93%	7%	7%	52	815	733	777	
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 BYRNHAT (400 kV)	0%	100%	0%	0%	0	420	398	411	
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	414	394	403	
8		अजारा 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		पुर्बचननारी 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	421	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 All India Angular Spread w.r.to Vindhyachal_Dec-2022

- 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

