

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

Date: 05-Dec-2022

System Reliability Indices Report for the month of November 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 NOVEMBER 2022

Date of reporting:

05-Dec-22

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-Nov-22	9.56	79.81	10.63	20.19	4:50	49.99
02-Nov-22	10.05	79.79	10.16	20.21	4:51	49.98
03-Nov-22	6.77	80.31	12.92	19.69	4:43	50.00
04-Nov-22	6.53	77.21	16.26	22.79	5:28	50.00
05-Nov-22	13.76	74.53	11.71	25.47	6:06	49.97
06-Nov-22	7.20	76.79	16.01	23.21	5:34	50.00
07-Nov-22	11.63	74.86	13.51	25.14	6:02	49.99
08-Nov-22	8.29	78.92	12.79	21.08	5:03	49.99
09-Nov-22	4.97	79.42	15.61	20.58	4:56	50.00
10-Nov-22	2.34	78.30	19.36	21.70	5:12	50.01
11-Nov-22	2.08	75.66	22.26	24.34	5:50	50.01
12-Nov-22	3.19	73.00	23.81	27.00	6:28	50.01
13-Nov-22	0.58	77.44	21.98	22.56	5:24	50.02
14-Nov-22	9.07	71.24	19.69	28.76	6:54	50.00
15-Nov-22	9.13	74.73	16.13	25.27	6:03	49.99
16-Nov-22	3.53	77.45	19.02	22.55	5:24	50.01
17-Nov-22	3.17	77.86	18.97	22.14	5:18	50.01
18-Nov-22	5.34	75.80	18.87	24.20	5:48	50.00
19-Nov-22	3.33	79.12	17.55	20.88	5:00	50.01
20-Nov-22	3.23	66.17	30.60	33.83	8:07	50.02
21-Nov-22	6.76	78.45	14.79	21.55	5:10	49.99
22-Nov-22	13.36	74.73	11.91	25.27	6:03	49.98
23-Nov-22	8.61	75.72	15.67	24.28	5:49	49.99
24-Nov-22	6.68	82.05	11.27	17.95	4:18	49.99
25-Nov-22	2.84	77.94	19.22	22.06	5:17	50.01
26-Nov-22	2.82	81.86	15.31	18.14	4:21	50.01
27-Nov-22	5.80	80.06	14.14	19.94	4:47	50.00
28-Nov-22	9.98	78.95	11.08	21.05	5:03	49.98
29-Nov-22	16.16	70.96	12.88	29.04	6:58	49.98
30-Nov-22	4.22	80.73	15.05	19.27	4:37	50.00
November 2022	6.70	77.00	16.31	23.00	165:37	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.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)	
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	788	746	770	
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	788	764	777	
3		गया GAYA	0%	100%	0%	0%	0	785	743	765	
4		जौरत JERAT	0%	100%	0%	0%	0	781	731	761	
5		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	0	799	769	785	
6		मिदिनपुर MEDINIPUR	0%	100%	0%	0%	0	787	750	771	
7		रान्ची RANCHI	0%	100%	0%	0%	0	796	765	783	
8		सासाराम SASARAM	0%	100%	0%	0%	0	793	739	762	
1		उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	746	779
2			आगरा (फतेहगढ़) AGRA (FATEHABAD)	0%	100%	0%	0%	0	797	744	774
3	अजमेर AJMER		0%	100%	0%	0%	3	805	741	780	
4	अलीगढ़ ALIGARH		0%	100%	0%	0%	0	798	743	776	
5	अनूपरा सी ANPARA-C		0%	100%	0%	0%	0	773	754	763	
6	अनूपरा डी ANPARA-D		0%	100%	0%	0%	0	772	751	762	
7	अन्ता ANTA		0%	100%	0%	0%	0	799	758	779	
8	बलिया BALLIA		0%	100%	0%	0%	0	788	745	765	
9	बारा BARA		0%	100%	0%	0%	0	784	754	769	
10	भाडला BHADLA		0%	100%	0%	0%	2	807	730	774	
11	भाडला-2 BHADLA-2		0%	100%	0%	0%	3	807	734	775	
12	भिवानी BHIWANI		0%	100%	0%	0%	1	802	748	780	
13	बीकानेर BIKANER		0%	99%	1%	1%	4	807	735	775	
14	बरौली BAREILLY		0%	99%	1%	1%	7	807	745	778	
15	चितौड़गढ़ CHITTOORGARH		0%	100%	0%	0%	1	803	745	778	
16	फतेहगढ़-2 FATEHGARH-2		0%	100%	0%	0%	2	807	729	774	
17	फतेहपुर FATEHPUR		0%	100%	0%	0%	0	795	741	768	
18	ग्रेटर नोडा GREATER NOIDA		0%	99%	1%	1%	4	804	750	784	
19	हापड़ HAPUR		0%	100%	0%	0%	2	803	736	775	
20	जाहानपुर JAWAHARPUR		0%	0%	0%	0%	0	0	0	0	
21	झाड़कपुर JHATIKARA		0%	100%	0%	0%	0	802	744	776	
22	कानपुर जीआरएस KANPUR GIS		0%	100%	0%	0%	0	788	742	769	
23	खैतरी KHETRI		0%	100%	0%	0%	1	804	741	777	
24	कोटेश्वर KOTESHWAR		0%	100%	0%	0%	0	798	741	773	
25	ललितपुर LALITPUR		0%	100%	0%	0%	0	777	743	762	
26	लखनऊ LUCKNOW		0%	100%	0%	0%	1	801	745	771	
27	मैनपुरी MAINPURI		0%	100%	0%	0%	1	802	748	781	
28	मेरठ MEERUT		0%	100%	0%	0%	2	804	745	781	
29	मोगा MOGA		0%	100%	0%	0%	4	810	719	770	
30	ओबरा सी OBRA C		0%	0%	0%	0%	0	0	0	0	
31	उई ORAI	0%	99%	1%	1%	4	841	736	784		
32	फागी PHAGI	0%	100%	0%	0%	1	803	741	779		
33	उन्नाव UNNAO	0%	100%	0%	0%	0	778	730	757		
34	वाराणसी VARANASI	0%	100%	0%	0%	0	790	754	774		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	746	771	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	798	741	775	
3		भोपाल (बीडेंडीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	795	741	772	
4		भुज BHUJ	0%	100%	0%	0%	0	798	748	770	
5		भुज-2 BHUJ-2	0%	100%	0%	0%	0	795	743	772	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	786	759	772	
7		बीना BINA	0%	100%	0%	0%	0	798	755	779	
8		बनारसकांठा BANASKANTHA	0%	100%	0%	0%	2	804	746	779	
9		चांपा CHAMPA	0%	91%	9%	9%	65	807	772	791	
10		धुले (बीडेंडीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	798	743	774	
11		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	790	757	775	
12		रायपुर पूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	794	763	780	
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	793	741	768	
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	800	761	782	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	0	800	750	781	
16		इंदौर INDORE	0%	100%	0%	0%	0	799	740	771	
17		जबलपुर JABALPUR	0%	100%	0%	0%	3	805	761	784	
18		खडवा KHANDWA	0%	100%	0%	0%	0	798	743	773	
19		कोरडी KORADI	0%	100%	0%	0%	0	783	744	766	
20		लक्षाईया LAKADIYA	0%	100%	0%	0%	0	803	763	796	
21		ससांग पूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	800	770	787	
22		पाडने पाडगे PADNE PADGE	0%	99%	1%	1%	5	808	743	779	
23		पार्ली PARLI	0%	100%	0%	0%	0	799	753	779	
24		पुणे PUNE	0%	99%	0%	0%	0	800	740	777	
25		राजनन्दगांव RAJNANDGAON	0%	99%	1%	1%	4	803	765	787	
26		सासन SASAN	0%	100%	0%	0%	0	788	762	777	
27		सतना SATNA	0%	100%	0%	0%	0	798	762	783	
28		सिवनी SEONI	0%	100%	0%	0%	0	795	751	774	
29		सीपत SIPAT	0%	100%	0%	0%	0	787	762	774	
30		सोलापुर SOLAPUR	0%	100%	0%	0%	0	800	753	779	
31		तिरोड़ा TIRODA	0%	100%	0%	0%	0	777	748	763	
32		तामनार TAMNAR	0%	100%	0%	0%	0	798	770	786	
33		वडोदरा VADODARA	0%	100%	0%	0%	0	802	742	774	
34		विंध्याचल पूलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	791	766	780	
35		वर्धा WARDHA	0%	100%	0%	0%	1	802	750	781	
36		वरौरा WARORA	0%	100%	0%	0%	0	796	755	779	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	88%	12%	12%	88	812	752	784	
2		चिल्कलीपेट CHILAKALURIPETA	0%	96%	4%	4%	26	806	736	774	
3		कुरनल KURNOL	0%	100%	0%	0%	0	799	741	773	
4		महेश्वर MAHESHWARAM	0%	100%	0%	0%	3	809	741	776	
5		निजामाबाद NIZAMABAD	0%	78%	22%	22%	155	812	754	787	
6		नेल्लोर पूलिंग NELLORE PS	0%	100%	0%	0%	0	796	744	771	
7		रायचूर RAICHUR	0%	100%	0%	0%	0	799	746	776	
8		श्रीकाकुलम SRIKAKULAM	0%	97%	3%	3%	22	806	750	780	
9		थिरुवल्लम THIRUVALLEM	0%	100%	0%	0%	0	793	728	764	
10		वेमगिरी VEMAGIRI	0%	94%	6%	6%	45	812	740	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	417	396	407	
3		बोंगाईगाव BONGAIGON (400 kV)	0%	100%	0%	0%	0	421	402	412	
4		बोंगाईगाव टीपीएस BONGAIGON TPS (400 kV)	0%	89%	11%	11%	82	424	406	415	
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	418	393	407	
6		बर्निहाट BYRNIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0	
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	414	394	404	
8		अजरा AZARA (400 kV)	0%	100%	0%	0%	0	413	403	409	
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	414	396	405	
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	416	396	407	
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	418	396	407	
12		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	412	398	405	
13		पूर्वचनवारी PK BARI (400 kV)	0%	100%	0%	0%	0	411	393	404	
14		रंगानादी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0	
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	418	398	408	
16		सुबान्सिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0	
17		सुर्ययामानगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	408	392	401	
18		थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	411	390	401	

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

All India Montly Angular Spread w.r.to Vindhyachal_Nov-2022

AGRA_PG ALIPU_PG BACHU_PG BALIP_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 UNNAO_UP VINDP_PG

