

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

Date: **04-Oct-2024**

System Reliability Indices Report for the month of SEPTEMBER 2024

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	124	31.00	4.31
3	Import of NR	14	3.50	0.49
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	34	8.50	1.18
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 JUNE 2024

Date of reporting:

04-Oct-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-Sep-24	3.65	79.57	16.78	20.43	4:54	50.01
02-Sep-24	6.93	78.22	14.85	21.78	5:13	50.00
03-Sep-24	5.93	81.08	13.00	18.92	4:32	49.99
04-Sep-24	2.63	73.48	23.89	26.52	6:21	50.01
05-Sep-24	2.59	74.94	22.47	25.06	6:00	50.01
06-Sep-24	6.20	75.46	18.33	24.54	5:53	50.01
07-Sep-24	2.71	71.98	25.31	28.02	6:43	50.02
08-Sep-24	4.06	67.36	28.58	32.64	7:50	50.03
09-Sep-24	3.91	75.72	20.37	24.28	5:49	50.01
10-Sep-24	3.69	73.52	22.79	26.48	6:21	50.02
11-Sep-24	1.24	86.03	12.73	13.97	3:21	50.01
12-Sep-24	1.09	82.30	16.61	17.70	4:14	50.01
13-Sep-24	6.96	72.43	20.61	27.57	6:37	50.00
14-Sep-24	4.31	71.98	23.72	28.02	6:43	50.01
15-Sep-24	1.28	74.40	24.32	25.60	6:08	50.02
16-Sep-24	5.67	77.09	17.23	22.91	5:29	50.00
17-Sep-24	3.70	83.73	12.57	16.27	3:54	49.99
18-Sep-24	15.68	78.11	6.20	21.89	5:15	49.96
19-Sep-24	12.96	74.63	12.41	25.37	6:05	49.98
20-Sep-24	12.63	76.11	11.26	23.89	5:44	49.98
21-Sep-24	6.94	82.87	10.19	17.13	4:06	49.99
22-Sep-24	17.55	73.62	8.83	26.38	6:19	49.97
23-Sep-24	14.72	73.00	12.28	27.00	6:28	49.98
24-Sep-24	3.66	73.69	22.65	26.31	6:18	50.01
25-Sep-24	4.63	83.50	11.88	16.50	3:57	50.00
26-Sep-24	6.35	76.72	16.92	23.28	5:35	50.00
27-Sep-24	5.35	78.56	16.09	21.44	5:08	50.00
28-Sep-24	9.44	79.68	10.88	20.32	4:52	49.98
29-Sep-24	1.42	84.28	14.29	15.72	3:46	50.01
30-Sep-24	4.86	79.72	15.42	20.28	4:52	50.00
September 2024	6.09	77.13	16.78	22.87	164:41	50.00

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

क्र.स. 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	794	749	772	
2		दालीसरी DALIIPALI	0%	100%	0%	0%	0	787	761	775	
3		गाया GAYA	0%	100%	0%	0%	0	789	748	772	
4		जीरत JEERAT	0%	100%	0%	0%	0	793	762	776	
5		झारसगुडा JHARSUGUDA	0%	100%	0%	0%	0	797	767	784	
6		मिदिनापुर MEDINIPUR	0%	100%	0%	0%	0	797	743	768	
7		राँची RANCHI	0%	100%	0%	0%	0	794	755	779	
8		सासाराम SASARAM	0%	100%	0%	0%	0	801	741	768	
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	800	750	778	
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	800	745	776	
3		अजमेर AJMER	0%	99%	1%	1%	6	804	749	785	
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	796	740	771	
5		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	784	757	770	
6		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	782	751	768	
7		अंता ANTA	0%	100%	0%	0%	0	798	763	780	
8		बलिया BALLIA	0%	100%	0%	0%	0	792	739	767	
9		बारा BARA	0%	100%	0%	0%	0	780	754	768	
10		भादला BHADLA	0%	100%	0%	0%	0	809	723	779	
11		भादला-2 BHADLA-2	0%	100%	0%	0%	0	801	729	782	
12		भिवानी BHIWANI	0%	100%	0%	0%	0	799	744	781	
13		बिकानेर BIKANER	0%	100%	0%	0%	0	801	729	780	
14		बरौली BAREILLY	0%	100%	0%	0%	2	803	742	776	
15		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	3	805	759	784	
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	0	798	720	778	
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	797	737	773	
18		घाटमपुर GHATAMPUR	0%	99%	1%	1%	10	802	722	777	
19		ग्रेंटर नोएडा GREATER NOIDA	0%	100%	0%	0%	0	801	744	777	
20		हापड़ HAPUR	0%	100%	0%	0%	0	800	736	773	
21		जवाहरपुर JAWAHARPUR	0%	100%	0%	0%	0	795	735	769	
22		झाटिकां JHATIKARA	0%	100%	0%	0%	0	795	740	774	
23		कानपुर जेआइएस KANPUR GIS	0%	100%	0%	0%	0	792	742	771	
24		खैरती KHETRI	0%	100%	0%	0%	0	801	737	778	
25		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	0	800	739	774	
26		लालितपुर LALITPUR	0%	100%	0%	0%	0	774	742	761	
27		लुक्नऊ LUCKNOW	0%	100%	0%	0%	0	795	738	772	
28		मैनपुरी MAINPURI	0%	100%	0%	0%	0	789	731	765	
29		मीरठ MEERUT	0%	100%	0%	0%	2	805	741	778	
30		मीरठ(UP) MEERUT (UP)	0%	100%	0%	0%	6	799	738	773	
31		मोगा MOGA	0%	100%	0%	0%	1	801	733	781	
32		ओबरा सी OBRA C	0%	100%	0%	0%	0	788	748	765	
33		उरई ORAI	0%	100%	0%	0%	0	802	750	783	
34		फागी PHAGI	0%	100%	0%	0%	0	800	756	783	
35		रामपुर RAMPUR	0%	99%	1%	1%	6	808	738	775	
36		उन्नाव UNNAO	0%	100%	0%	0%	0	796	731	765	
37	वाराणसी VARANASI	0%	100%	0%	0%	0	794	750	776		
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	750	772	
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	1	803	748	776	
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	790	753	771	
4		भुज BHUJ	0%	100%	0%	0%	0	800	743	779	
5		भुज-2 BHUJ-II	0%	100%	0%	0%	0	795	744	774	
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	788	756	771	
7		बीना BINA	0%	100%	0%	0%	0	797	753	779	
8		बनसकंठा BANASKANTHA	0%	99%	1%	1%	4	807	752	785	
9		चापा CHAMPA	0%	98%	2%	2%	17	807	760	786	
10		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	0	794	750	773	
11		धर्मजयगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	788	748	770	
12		रायपुर प्रूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	794	760	779	
13		एकतनी EKTUNI	0%	100%	0%	0%	0	793	745	772	
14		गदरवाड़ा GADARWARA	0%	100%	0%	0%	3	802	765	786	
15		ग्वालियर GWALIOR	0%	100%	0%	0%	0	800	752	781	
16		इंदौर INDORE	0%	100%	0%	0%	0	787	750	769	
17		जबलपुर JABALPUR	0%	99%	1%	1%	4	803	758	786	
18		खडवा KHANDWA	0%	100%	0%	0%	0	788	752	771	
19		कोरडी KORADI	0%	100%	0%	0%	0	777	747	763	
20		लाकाडिया LAKADIYA	0%	98%	2%	2%	11	805	752	784	
21		रायगढ़ प्रूलिंग RAIGARH POOLING	0%	100%	0%	0%	0	797	767	783	
22		पड़घे PADGHE	0%	99%	1%	1%	4	809	746	777	
23		परली PARLI	0%	99%	1%	1%	6	806	756	785	
24		पुणे PUNE	0%	99%	1%	1%	4	808	744	776	
25		राजानंदगाँव RAJANANDGAON	0%	100%	0%	0%	3	805	762	787	
26		सासन SASAN	0%	100%	0%	0%	0	795	761	780	
27		सातना SATNA	0%	98%	2%	2%	13	803	763	786	
28		सिवनी SEONI	0%	100%	0%	0%	0	800	758	780	
29		सीपत SIPAT	0%	100%	0%	0%	0	787	758	772	
30		सोलापुर SOLAPUR	0%	99%	1%	1%	5	806	743	783	
31		तिरुवा TIRORA	0%	100%	0%	0%	0	773	747	760	
32		तामनार TAMNAR	0%	100%	0%	0%	0	796	765	782	
33		वडोदरा VADODARA	0%	100%	0%	0%	0	796	748	774	
34		विंध्याचल प्रूलिंग VINHYACHAL PS	0%	100%	0%	0%	0	798	765	783	
35		वर्धा WARDHA	0%	99%	1%	1%	7	806	751	783	
36		वरार WARORA	0%	100%	0%	0%	3	803	754	786	
1	दक्षिणी क्षेत्र SR	अरियलर ARIYALUR	0%	96%	4%	4%	27	805	753	787	
2		कडपा CUDDAPAH	0%	97%	3%	3%	25	811	756	784	
3		चिल्कुरीपेट CHILAKALURIPETA	0%	99%	1%	1%	5	806	743	777	
4		कनूल KURNOOL	0%	100%	0%	0%	3	804	749	780	
5		महेश्वरम MAHESWARAM	0%	97%	3%	3%	20	808	750	785	
6		निजामाबाद NIZAMABAD	0%	87%	13%	13%	91	812	751	789	
7		नेल्लूर प्रूलिंग NELLORE PS	0%	100%	0%	0%	0	799	752	775	
8		नोर्थ चेन्नै प्रूलिंग NORTH CHENNAI PS	0%	99%	1%	1%	6	812	750	779	
9		रायचूर RAICHUR	0%	100%	0%	0%	2	803	751	779	
10		श्रीककुलम SRIKAKULAM	0%	98%	2%	2%	18	806	745	780	
11		तिरुवलम THIRUVALEM	0%	100%	0%	0%	3	800	747	772	
12		वेमगिरी VEMAGIRI	0%	97%	3%	3%	24	808	742	781	
13		वारंगल WARANGAL	0%	99%	1%	1%	4	811	754	779	
1		पूर्वोत्तर क्षेत्र NER	बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	0	412	400	406
2			बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	418	389	405
3			बांगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	399	407
4			बांगागाँव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	417	397	409
5			इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	414	393	404
6	बर्निहाट BYRNHAT (400 kV)		0%	100%	0%	0%	0	408	396	402	
7	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	414	394	403	
8	अज़ारा AZARA (400 kV)		0%	100%	0%	0%	0	411	399	406	
9	मिसा MISA (400 kV)		0%	100%	0%	0%	0	414	394	403	
10	न्यू मारियानी NEW MARIANI (400 kV)		0%	100%	0%	0%	0	415	397	406	
11	न्यू कोहिमा NEW KOHIMA (400 kV)		0%	100%	0%	0%	0	418	395	406	
12	पालाताना PALATANA (400 kV)		0%	100%	0%	0%	0	415	402	407	
13	पूर्वकंचनबारी PK BARI (400 kV)		0%	100%	0%	0%	0	412	394	402	
14	रंगानादी RANGANADI (400 kV)		0%	100%	0%	0%	0	410	398	403	
15	सिलचर SILCHAR (400 kV)		0%	100%	0%	0%	0	417	399	407	
16	सुबानासिरी SUBANSIRI (400 kV)		0%	100%	0%	0%	0	413	397	404	
17	सुरज्यामनिगर SURJYAMANINAGAR (400 kV)		0%	100%	0%	0%	0	411	394	402	
18	थोबाल THOUBAL (400 kV)		0%	100%	0%	0%	0	415	384	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_September-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 SILCR_PG TALCH_PG TCHRN_PG VINDP_PG

