

**POWER SYSTEM OPERATION CORPORATION LIMITED  
NATIONAL LOAD DESPATCH CENTRE  
NEW DELHI**

Date: **04-Oct-2022**

**System Reliability Indices Report for the month of September 2022**

**Percentage (%) of times ATC was violated**

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	2	0.50	0.07
2	ER-NR	15	3.75	0.52
3	Import of NR	2	0.50	0.07
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	2	0.50	0.07
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 SEPTEMBER 2022

Date of reporting:

04-Oct-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-Sep-22	6.90	82.14	10.96	17.86	4:17	49.99
02-Sep-22	7.56	85.01	7.43	14.99	3:35	49.99
03-Sep-22	3.40	86.19	10.41	13.81	3:18	50.00
04-Sep-22	5.27	73.63	21.10	26.37	6:19	50.01
05-Sep-22	6.86	83.58	9.56	16.42	3:56	49.99
06-Sep-22	8.89	83.99	7.12	16.01	3:50	49.98
07-Sep-22	9.76	84.04	6.20	15.96	3:49	49.98
08-Sep-22	11.30	83.63	5.07	16.37	3:55	49.98
09-Sep-22	8.28	86.63	5.09	13.37	3:12	49.98
10-Sep-22	4.76	87.12	8.13	12.88	3:05	50.00
11-Sep-22	7.36	69.77	22.87	30.23	7:15	50.01
12-Sep-22	10.24	76.67	13.09	23.33	5:36	49.99
13-Sep-22	3.56	75.93	20.51	24.07	5:46	50.01
14-Sep-22	8.50	73.41	18.09	26.59	6:22	50.00
15-Sep-22	9.43	72.95	17.62	27.05	6:29	49.99
16-Sep-22	2.06	69.16	28.78	30.84	7:24	50.03
17-Sep-22	4.79	82.20	13.01	17.80	4:16	50.00
18-Sep-22	5.91	86.63	7.45	13.37	3:12	49.99
19-Sep-22	8.30	83.15	8.55	16.85	4:02	49.99
20-Sep-22	2.12	84.20	13.68	15.80	3:47	50.01
21-Sep-22	6.08	75.93	18.00	24.07	5:46	50.01
22-Sep-22	3.73	83.96	12.31	16.04	3:51	50.01
23-Sep-22	3.56	78.82	17.62	21.18	5:05	50.01
24-Sep-22	4.48	78.29	17.23	21.71	5:12	50.01
25-Sep-22	4.79	78.31	16.90	21.69	5:12	50.01
26-Sep-22	9.02	80.21	10.78	19.79	4:45	49.99
27-Sep-22	4.32	82.34	13.34	17.66	4:14	50.00
28-Sep-22	2.08	83.43	14.49	16.57	3:58	50.01
29-Sep-22	4.98	86.86	8.16	13.14	3:09	50.00
30-Sep-22	0.02	84.95	15.02	15.05	3:36	50.02
<b>September 2022</b>	<b>5.94</b>	<b>80.77</b>	<b>13.29</b>	<b>19.23</b>	<b>138:27</b>	<b>50.00</b>

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

विद्युत विभव रूपरेखा माह - सितंबर 2022

VOLTAGE PROFILE - September 2022

Date of reporting: 04-Oct-22

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	अंगल ANGL	0%	100%	0%	0%	0	794	748	775
2		दालिपली DARLIPALI	0%	100%	0%	0%	0	790	764	779
3		गया GAYA	0%	100%	0%	0%	0	786	749	769
4		जेरत JERAT	0%	100%	0%	0%	0	789	738	764
5		झारसुगडा JHARSUGUDA	0%	100%	0%	0%	1	802	771	788
6		मिदनापुर MEDINIPUR	0%	100%	0%	0%	0	789	749	772
7		रंची RANCHI	0%	100%	0%	0%	0	794	766	783
8		ससाराम SASARAM	0%	100%	0%	0%	0	793	742	763
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	745	778
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	0	793	745	771
3		अजमेर AJMER	0%	100%	0%	0%	4	809	752	780
4		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	799	747	775
5		अनूपरा सी ANPARA-C	0%	100%	0%	0%	0	780	751	768
6		अनूपरा डी ANPARA-D	0%	100%	0%	0%	0	781	752	766
7		अंता ANTA	0%	100%	0%	0%	0	799	762	779
8		बलिया BALLIA	0%	100%	0%	0%	0	790	744	770
9		बारा BARA	0%	100%	0%	0%	0	782	758	769
10		भादला BHADLA	0%	100%	0%	0%	2	809	730	773
11		भादला-2 BHADLA-2	0%	99%	1%	1%	7	809	727	777
12		बिहारी BHIWANI	0%	100%	0%	0%	0	802	744	779
13		बीकानेर BIKANER	0%	99%	1%	1%	4	808	736	775
14		बरेली BAREILLY	0%	100%	0%	0%	4	806	747	777
15		चित्तौड़गढ़ CHITTORGARH	0%	100%	0%	0%	3	807	750	779
16		फतेहगढ़-2 FATEHGARH-2	0%	100%	0%	0%	2	806	717	774
17		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	797	736	769
18		ग्रेटर नोएडा GREATER NOIDA	0%	100%	0%	0%	1	802	750	779
19		हापुड HAPUR	0%	100%	0%	0%	0	798	739	775
20		जवाहरपुर JAWAHARPUR	0%	0%	0%	0%	0	0	0	0
21		झटिकरा JHATIKARA	0%	100%	0%	0%	0	794	745	773
22		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	791	748	771
23		खैरती KHETRI	0%	100%	0%	0%	0	801	738	775
24		कोटेश्वर KOTESHWAR	0%	100%	0%	0%	1	806	743	771
25		लालितपुर LALITPUR	0%	100%	0%	0%	0	774	742	759
26		लखनऊ LUCKNOW	0%	100%	0%	0%	0	797	741	772
27		मैनपुरी MAINPURI	0%	100%	0%	0%	0	801	752	778
28		मेरठ MEERUT	0%	100%	0%	0%	1	804	744	778
29		मोहा MOGA	0%	100%	0%	0%	1	807	738	772
30		ओबरा सी OBRA C	0%	0%	0%	0%	0	0	0	0
31		उरई ORAI	0%	99%	1%	1%	7	804	759	784
32		फागी PHAGI	0%	100%	0%	0%	1	802	754	780
33		उन्नाव UNNAO	0%	100%	0%	0%	0	790	727	760
34		वाराणसी VARANASI	0%	100%	0%	0%	0	790	757	775
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	751	776
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	801	742	778
3		भोपाल (बीकेंटीसीरल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	790	741	769
4		भुज BHUJ	0%	100%	0%	0%	0	801	733	771
5		भुज-2 BHUJ-II	0%	100%	0%	0%	1	807	742	771
6		बिलासपुर BILASPUR	0%	100%	0%	0%	0	789	763	777
7		बीना BINA	0%	100%	0%	0%	1	801	759	781
8		बनसकण्ठ BANASKANTHA	0%	100%	0%	0%	1	805	745	779
9		चापा CHAMPA	0%	87%	13%	13%	94	810	761	792
10		पुल (बीकेंटीसीरल) DHULE (BDTCL)	0%	100%	0%	0%	0	795	741	774
11		धरमचगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	793	760	779
12		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	793	765	785
13		एकतुनी EKTUNI	0%	100%	0%	0%	0	797	750	775
14		गढ़वाड़ा GADARWARA	0%	99%	1%	1%	4	803	764	786
15		ग्वालियर GWALIOR	0%	99%	1%	1%	4	802	755	783
16		इंदौर INDORE	0%	100%	0%	0%	0	787	737	768
17		जबलपुर JABALPUR	0%	99%	1%	1%	11	805	768	787
18		खडवा KHANDWA	0%	100%	0%	0%	0	791	736	771
19		कोरडी KORADI	0%	0%	0%	0%	0	780	748	767
20		रायगढ़ पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	801	768	787
21		पडघे PADGHE	0%	100%	0%	0%	3	804	746	776
22		परली PARLI	0%	96%	4%	4%	26	807	755	787
23		पुणे PUNE	0%	99%	0%	0%	0	800	745	776
24		राजनन्दागांव RAJNANDGAON	0%	87%	13%	13%	95	808	771	793
25	सासन SASAN	0%	100%	0%	0%	0	792	765	778	
26	सातना SATNA	0%	100%	0%	0%	1	802	766	784	
27	सिवनी SEONI	0%	100%	0%	0%	0	800	756	782	
28	सीतल SIPAT	0%	100%	0%	0%	0	789	765	778	
29	सोलापुर SOLAPUR	0%	99%	1%	1%	6	805	761	784	
30	तिरुंगा TIRORA	0%	100%	0%	0%	0	775	751	764	
31	तामनार TAMNAR	0%	100%	0%	0%	0	799	772	787	
32	वडीदा VADODARA	0%	100%	0%	0%	0	798	745	772	
33	विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	794	769	782	
34	वर्धा WARDHA	0%	98%	2%	2%	13	807	749	786	
35	वरोरा WARDORA	0%	99%	1%	1%	5	804	757	786	
1	दक्षिणी क्षेत्र SR	कडपा CUDDAPAH	0%	92%	8%	8%	58	808	754	785
2		चिल्कलुरिपेट CHILKALURIPETA	0%	100%	0%	0%	3	804	742	780
3		कुरुनल KURNOOL	0%	100%	0%	0%	0	796	742	775
4		महेश्वरम MAHESWARAM	0%	98%	2%	2%	14	813	731	777
5		निजामाबाद NIZAMABAD	0%	79%	21%	21%	150	814	741	788
6		नेल्लूर पुलिंग NELLORE PS	0%	100%	0%	0%	0	795	748	774
7		रायचूर RAICHUR	0%	100%	0%	0%	0	799	746	778
8		श्रीकाकुलम SRIKAKULAM	0%	96%	4%	4%	29	805	747	784
9		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	792	725	762
10		वेमगिरी VEMAGIRI	0%	92%	8%	8%	54	808	744	782
1	पूर्वोत्तरी 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	415	396	405
3		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	413	400	404
4		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	416	404	410
5		इम्फाल IMPHAL (400 kV)	0%	100%	0%	0%	0	417	396	406
6		बर्निहाट BYRNIHAT (400 kV)	0%	0%	0%	0%	0	0	0	0
7		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	411	396	403
8		अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	409	399	404
9		मिसा MISA (400 kV)	0%	100%	0%	0%	0	413	395	404
10		न्यू मरियानी NEW MARIANI (400 kV)	0%	100%	0%	0%	0	417	396	406
11		न्यू कोहिमा NEW KOHIMA (400 kV)	0%	100%	0%	0%	0	419	395	407
12		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	413	401	407
13		पुर्वकचनबारी PK BARI (400 kV)	0%	100%	0%	0%	0	411	394	404
14		रंगानादी RANGANADI (400 kV)	0%	0%	0%	0%	0	0	0	0
15		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	417	396	407
16		सुबानसिरी SUBANSIRI (400 kV)	0%	0%	0%	0%	0	0	0	0
17		सुज्यामनिगर SURJYAMANINAGAR (400 kV)	0%	100%	0%	0%	0	410	395	402
18	थोबाल THOUBAL (400 kV)	0%	100%	0%	0%	0	415	385	400	

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\_Sep-2022

AGRA\_PG ALIPU\_PG BACHU\_PG BALIP\_PG BONGA\_PG CHDPR\_MH DURGA4\_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

