

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

**System Reliability Indices Report for the month of September 2017**

Date: 4-Oct-2017

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

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	113	28.25	3.92
2	ER-NR	0	0.00	0.00
3	Import of NR	124	31.00	4.31
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	21	5.25	0.73
2	ER-NR	0	0.00	0.00
3	Import of NR	13	3.25	0.45
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.

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)	उच्चतम (कि.वो.) Maximum(kV)	निम्नतम(कि.वो.) Minimum(kV)	औसत (कि.वो.) Average(kV)
1	पूर्वी क्षेत्र ER	अगल ANGUL	0%	100%	0%	0%	800	778	788
2		गया GAYA	0%	100%	0%	0%	793	746	769
3		झारसगुडा JHARSUGUDA	0%	99%	1%	1%	803	778	792
4		रांची RANCHI	0%	100%	0%	0%	797	769	783
5		सासाराम SASARAM	0%	100%	0%	0%	790	730	762
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	800	755	776
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	760	749	758
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	786	748	761
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	786	748	760
5		अंता ANTA	0%	100%	0%	0%	802	753	778
6		बलिया BALLIA	0%	100%	0%	0%	817	743	771
7		बारा BARA	0%	100%	0%	0%	773	759	766
8		भिवानी BHIWANI	0%	98%	2%	2%	809	761	783
9		बरेली BAREILLY	0%	100%	0%	0%	760	749	759
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	791	728	762
11		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	804	753	781
12		झटिकरा JHATIKARA	0%	100%	0%	0%	803	758	780
13		कानपुर जीआईएस KANPUR GIS	17%	83%	0%	17%	760	697	753
14		लखनऊ LUCKNOW	0%	99%	1%	1%	806	746	775
15		लखितपुर LALITPUR	0%	100%	0%	0%	787	746	772
16		मेरठ MEERUT	0%	96%	4%	4%	812	758	784
17		मोगा MOGA	0%	100%	0%	0%	802	754	774
18		फागी PHAGI	0%	100%	0%	0%	803	751	779
19		वाराणसी VARANASI	0%	100%	0%	0%	799	753	774
20		उन्नाव UNNAO	0%	100%	0%	0%	781	739	758
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	792	760	777
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	797	753	782
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	785	749	769
4		बिलासपुर BILASPUR	0%	100%	0%	0%	775	756	766
5		बीना BINA	0%	100%	0%	0%	793	759	776
6		चापा CHAMPA	0%	92%	8%	8%	807	780	793
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	793	761	778
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	799	750	782
9		एकतुनी EKTUNI	0%	100%	0%	0%	790	758	775
10		ग्वालियर GWALIOR	0%	100%	0%	0%	797	758	777
11		इंदौर INDORE	0%	100%	0%	0%	788	753	772
12		जबलपुर JABALPUR	0%	100%	0%	0%	801	758	781
13		कोरडी KORADI	0%	100%	0%	0%	781	754	770
14		पुणे PUNE	0%	100%	0%	0%	800	732	771
15		रायगढ़ पोलिंग RAIGARH POOLING	0%	97%	3%	3%	804	780	792
16		रायपुर पोलिंग RAIPUR POOLING	0%	99%	1%	1%	801	767	785
17		सासन SASAN	0%	100%	0%	0%	776	752	765
18		सतना SATNA	0%	100%	0%	0%	781	746	765
19		सिवनी SEONI	0%	100%	0%	0%	792	759	779
20		सोपत SIPAT	0%	100%	0%	0%	773	755	764
21		सोलापुर SOLAPUR	0%	93%	7%	7%	807	767	792
22		तामनार TAMNAR	0%	98%	2%	2%	804	782	791
23		तिरोडा TIRODA	0%	100%	0%	0%	775	754	766
24		वडोदरा VADODARA	0%	100%	0%	0%	800	765	783
25		विंध्याचल पोलिंग VINDHYACHAL PS	0%	100%	0%	0%	780	755	767
26	वर्धा WARDHA	0%	99%	1%	1%	805	762	786	
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	98%	2%	2%	804	767	788
2		नेल्लूर पोलिंग NELLORE PS	0%	100%	0%	0%	801	715	787
3		रायचूर RAICHUR	0%	97%	3%	3%	805	771	790
4		निजामाबाद NIZAMABAD	0%	95%	5%	5%	808	753	786
5		श्रीकाकुलम SRIKAKULAM	0%	94%	6%	6%	809	753	787
6		तिरुवेलम THIRUVALEM	0%	52%	48%	48%	818	771	800
1	पूर्वोत्तरी क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	414	402	407
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	419	386	404
3		बिस्वनाथ चरियालि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	423	388	409
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	416	391	403
5		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	422	401	410
6		बर्निहट BYRNIHAT (400 kV)	0%	100%	0%	0%	414	402	407
7		पालाटाना PALATANA (400 kV)	0%	81%	19%	19%	426	402	418
8		मैसा MISA (400 kV)	0%	99%	1%	1%	427	397	412
9		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	424	397	411

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

## FREQUENCY DEVIATION INDEX FOR SEPTEMBER 2017

Date of reporting: 04-Oct-17

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	Average Frequency (Hz)
	<49.9 Hz	49.9 - 50.05 Hz	>50.05 Hz		
01-Sep-17	8.33	74.35	17.31	25.65	50.00
02-Sep-17	5.95	83.85	10.20	16.15	49.99
03-Sep-17	6.90	85.80	7.30	14.20	49.98
04-Sep-17	21.79	76.26	1.94	23.74	49.94
05-Sep-17	18.43	76.96	4.62	23.04	49.95
06-Sep-17	13.88	80.23	5.89	19.77	49.96
07-Sep-17	29.29	68.82	1.89	31.18	49.93
08-Sep-17	37.42	61.23	1.35	38.77	49.92
09-Sep-17	25.05	73.18	1.77	26.82	49.94
10-Sep-17	8.10	83.37	8.53	16.63	49.98
11-Sep-17	25.21	71.53	3.26	28.47	49.94
12-Sep-17	9.04	80.19	10.78	19.81	49.98
13-Sep-17	16.34	77.78	5.88	22.22	49.96
14-Sep-17	19.76	75.96	4.28	24.04	49.96
15-Sep-17	16.91	79.55	3.54	20.45	49.95
16-Sep-17	12.26	77.41	10.34	22.59	49.98
17-Sep-17	0.89	72.95	26.16	27.05	50.02
18-Sep-17	2.25	74.10	23.65	25.89	50.01
19-Sep-17	2.66	75.98	21.35	24.02	50.01
20-Sep-17	2.44	77.95	19.61	22.05	50.01
21-Sep-17	13.98	80.42	5.60	19.58	49.97
22-Sep-17	7.66	84.61	7.73	15.39	49.98
23-Sep-17	6.79	80.13	13.08	19.87	49.99
24-Sep-17	0.06	81.08	18.87	18.92	50.01
25-Sep-17	3.30	85.49	11.22	14.51	49.99
26-Sep-17	14.69	80.81	4.50	19.19	49.96
27-Sep-17	6.84	85.63	7.53	14.38	49.98
28-Sep-17	10.13	84.40	5.47	15.60	49.97
29-Sep-17	3.69	82.36	13.95	17.64	49.99
30-Sep-17	3.10	82.57	14.33	17.43	50.00
<b>September 2017</b>	<b>11.77</b>	<b>78.50</b>	<b>9.73</b>	<b>21.50</b>	<b>49.97</b>

\*FDI is defined as percentage of time for which frequency is outside IEGC band (49.9-50.05 Hz)

