

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

System Reliability Indices Report for the month of August 2017

Date: 4-Sep-2017

Percentage (%) of times ATC was violated

S.No.	Corridor	Number of Blocks Violated	Number of Hours Violated	%Violation
1	WR-NR	12	3.00	0.40
2	ER-NR	0	0.00	0.00
3	Import of NR	68	17.00	2.28
4	NEW-SR	55	13.75	1.85
5	NER Import	11	2.75	0.37

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	4	1.00	0.13
4	NEW-SR	8	2.00	0.27
4	NER Import	8	2.00	0.27

Remarks: Flows crossing Total Transfer Capability (TTC) on interregional corridors has been worked out as a proxy for (N-1) violation.

विद्युत विभव रूपरेखा माह – अगस्त 2017

VOLTAGE PROFILE - AUGUST 2017

Date of reporting: 04-Sep-17

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%	99%	1%	1%	803	771	789
2		गया GAYA	0%	100%	0%	0%	797	743	772
3		झारसगुडा JHARSUGUDA	0%	88%	12%	0%	809	782	796
4		रांची RANCHI	0%	100%	0%	0%	800	768	785
5		सासाराम SASARAM	0%	100%	0%	0%	789	727	764
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	797	744	775
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	100%	0%	0%	760	731	753
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	778	748	762
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	777	750	762
5		अंता ANTA	0%	100%	0%	0%	797	757	779
6		बलिया BALLIA	0%	100%	0%	0%	798	736	770
7		बारा BARA	0%	100%	0%	0%	760	739	757
8		भिवानी BHIWANI	0%	99%	1%	1%	801	753	781
9		बरेली BAREILLY	3%	97%	0%	3%	760	705	757
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	788	734	763
11		ग्रेटर नोएडा GREATER NOIDA	0%	99%	1%	1%	802	747	779
12		झाटिका JHATIKARA	0%	100%	0%	0%	799	746	778
13		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	760	747	759
14		लखनऊ LUCKNOW	0%	100%	0%	0%	801	738	771
15		लखितपुर LALITPUR	0%	100%	0%	0%	792	758	776
16		मेरठ MEERUT	0%	98%	2%	2%	812	752	781
17		मोगा MOGA	0%	100%	0%	0%	793	756	771
18		फाजी PHAGI	0%	100%	0%	0%	799	751	779
19		वाराणसी VARANASI	0%	100%	0%	0%	799	748	774
20		उन्नाव UNNAO	0%	100%	0%	0%	785	731	757
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	791	748	776
2		औरंगाबाद AURANGABAD	0%	99%	1%	1%	805	748	785
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	786	751	770
4		बिलासपुर BILASPUR	0%	100%	0%	0%	778	759	768
5		बीना BINA	0%	100%	0%	0%	794	754	777
6		चापा CHAMPA	0%	79%	21%	0%	812	786	798
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	798	766	782
8		धुले (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	800	749	783
9		एकतुली EKTUNI	0%	100%	0%	0%	792	740	774
10		ग्वालियर GWALIOR	0%	100%	0%	0%	799	751	778
11		इंदौर INDORE	0%	100%	0%	0%	788	752	774
12		जबलपुर JABALPUR	0%	100%	0%	0%	801	752	780
13		कोरडी KORADI	0%	100%	0%	0%	783	751	770
14		पुणे PUNE	0%	100%	0%	0%	800	723	767
15		रायगढ़ पोलिंग RAIGARH POOLING	0%	92%	8%	8%	811	785	795
16		रायपुर पोलिंग RAIPUR POOLING	0%	99%	1%	1%	802	771	788
17		सासन SASAN	0%	100%	0%	0%	773	751	762
18		सतना SATNA	0%	100%	0%	0%	781	747	767
19		सिवनी SEONI	0%	100%	0%	0%	794	761	781
20		सोपत SIPAT	0%	100%	0%	0%	775	759	766
21		सोलापुर SOLAPUR	0%	94%	6%	6%	807	759	790
22		तामनार TAMNAR	0%	95%	5%	5%	808	785	795
23		तिरौडा TIRORA	0%	100%	0%	0%	779	753	766
24		वडोदरा VADODARA	0%	100%	0%	0%	801	754	783
25		विंध्याचल पोलिंग VINDHYACHAL PS	0%	100%	0%	0%	776	752	763
26	वर्धा WARDHA	0%	100%	0%	0%	803	755	786	
1	दक्षिणी क्षेत्र SR	कर्नूल KURNOOL	0%	98%	2%	2%	806	762	787
2		नेल्लूर पोलिंग NELLORE PS	0%	99%	1%	1%	804	766	786
3		रायचूर RAICHUR	0%	97%	3%	3%	806	765	789
4		निजामाबाद NIZAMABAD	0%	98%	2%	2%	808	753	783
5		श्रीकाकुलम SRIKAKULAM	0%	98%	2%	2%	808	752	783
6	तिरुवल्लम THIRUVALEM	0%	56%	44%	44%	821	778	799	
1	पूर्वोत्तरी क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	412	399	406
2		बालिपारा BALIPARA (400 kV)	0%	99%	0%	1%	427	351	406
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	423	389	409
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	411	387	400
5		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	421	396	409
6		बर्निहट BYRNIHAT (400 kV)	0%	100%	0%	0%	412	399	406
7		पालाटाना PALATANA (400 kV)	0%	96%	4%	4%	427	395	415
8		मैसा MISA (400 kV)	0%	100%	0%	0%	424	393	410
9		सिलचर SILCHAR (400 kV)	0%	98%	1%	2%	428	380	409

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

FREQUENCY DEVIATION INDEX FOR AUGUST 2017

Date of reporting: 04-Sep-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-Aug-17	9.77	77.16	13.07	22.84	49.99
02-Aug-17	3.23	71.20	25.57	28.80	50.01
03-Aug-17	3.66	76.70	19.64	23.30	50.00
04-Aug-17	10.43	77.78	11.79	22.22	49.98
05-Aug-17	18.28	74.32	7.41	25.68	49.96
06-Aug-17	14.90	76.34	8.76	23.66	49.97
07-Aug-17	7.69	82.91	9.41	17.09	49.98
08-Aug-17	20.96	73.44	5.60	26.56	49.95
09-Aug-17	17.36	75.27	7.37	24.73	49.96
10-Aug-17	5.36	76.93	17.71	23.07	50.00
11-Aug-17	1.37	73.53	25.10	26.47	50.02
12-Aug-17	2.56	76.06	21.38	23.94	50.01
13-Aug-17	3.94	84.62	11.45	15.38	49.99
14-Aug-17	16.02	79.70	4.28	20.30	49.96
15-Aug-17	5.10	73.26	21.63	26.74	50.00
16-Aug-17	4.10	77.84	18.07	22.16	50.00
17-Aug-17	14.42	74.69	10.89	25.31	49.98
18-Aug-17	9.27	77.62	13.11	22.38	49.98
19-Aug-17	0.27	65.25	34.48	34.75	50.03
20-Aug-17	1.08	60.80	38.13	39.20	50.03
21-Aug-17	8.96	76.79	14.25	23.21	49.99
22-Aug-17	8.24	78.47	13.29	21.53	49.99
23-Aug-17	6.67	83.44	9.90	16.56	49.98
24-Aug-17	3.26	82.81	13.92	17.19	50.00
25-Aug-17	4.44	81.33	14.22	18.67	50.00
26-Aug-17	5.28	85.21	9.51	14.79	49.98
27-Aug-17	1.99	85.88	12.13	14.12	50.00
28-Aug-17	2.37	74.59	23.03	25.41	50.01
29-Aug-17	1.97	71.16	26.88	28.84	50.02
30-Aug-17	5.54	81.81	12.65	18.19	49.99
31-Aug-17	2.37	79.85	17.78	20.15	50.00
August 2017	7.12	76.99	15.88	23.01	49.99

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

