

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

System Reliability Indices Report for the month of December 2018

Date: 4-Jan-2019

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	6	1.50	0.20
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.

क्र.स. SI. 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%	2	802	765	784
2		गया GAYA	0%	100%	0%	0%	0	786	753	770
3		झारसुगड़ा JHARSUGUDA	0%	90%	10%	10%	74	809	779	794
4		रांची RANCHI	0%	100%	0%	0%	0	789	765	779
5		सासाराम SASARAM	0%	100%	0%	0%	0	781	736	760
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	801	749	783
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	98%	2%	2%	18	812	725	777
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	783	753	767
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	782	745	766
5		अंता ANTA	0%	100%	0%	0%	0	800	754	780
6		बलिया BALLIA	0%	100%	0%	0%	0	789	752	772
7		भिवानी BHIWANI	0%	97%	3%	3%	23	808	759	786
8		बरेली BAREILLY	0%	100%	0%	0%	0	760	743	759
9		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	731	768
10		ग्रेटर नोएडा GREATER NOIDA	0%	91%	9%	9%	67	809	752	790
11		झाटिकरा JHATIKARA	0%	97%	3%	3%	19	807	753	786
12		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	760	744	760
13		लखनऊ LUCKNOW	0%	100%	0%	0%	0	797	749	778
14		ललितपुर LALITPUR	2%	98%	0%	2%	15	808	713	760
15		मेरठ MEERUT	0%	98%	2%	2%	15	810	745	784
16		मोगा MOGA	0%	100%	0%	0%	0	800	741	772
17		फागी PHAGI	0%	100%	0%	0%	0	802	750	781
18		वाराणसी VARANASI	0%	100%	0%	0%	0	795	757	777
19		उन्नाव UNNAO	0%	100%	0%	0%	0	777	734	751
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	793	755	776
2		औरंगाबाद AURANGABAD	0%	99%	1%	1%	4	807	759	785
3		भोपाल (बीडीटीसीएल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	796	749	775
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	786	758	772
5		बिना BINA	0%	100%	0%	0%	0	800	754	781
6		चांपा CHAMPA	0%	90%	10%	10%	75	807	778	795
7		धर्मजगढ़ DHARAMJAGARH	0%	100%	0%	0%	0	793	766	780
8		धुल (बीडीटीसीएल) DHULE (BDTCL)	0%	100%	0%	0%	1	804	748	779
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	793	753	777
10		ग्वालियर GWALIOR	0%	100%	0%	0%	1	801	752	783
11		इंदौर INDORE	0%	100%	0%	0%	0	794	752	774
12		जबलपुर JABALPUR	0%	99%	1%	1%	4	805	763	786
13		कोरडी KORADI	0%	100%	0%	0%	0	780	747	767
14		पुणे PUNE	0%	100%	0%	0%	0	800	732	778
15		रायगढ़ पूलिंग RAIGARH POOLING	0%	92%	8%	8%	63	809	777	794
16		रायपुर पूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	800	766	786
17		सासन SASAN	0%	100%	0%	0%	0	783	748	765
18		सतना SATNA	0%	100%	0%	0%	0	793	742	769
19		सिवनी SEONI	0%	100%	0%	0%	0	800	760	782
20		सीपत SIPAT	0%	100%	0%	0%	0	785	759	770
21		सोलापुर SOLAPUR	0%	80%	20%	20%	151	814	762	793
22		तामनार TAMNAR	0%	95%	5%	5%	35	806	778	793
23		तिरोड़ा TIRODA	0%	100%	0%	0%	0	772	750	762
24		वडोदरा VADODARA	0%	100%	0%	0%	1	802	762	784
25		विन्ध्याचल पूलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	785	750	766
26		वर्धा WARDHA	0%	99%	1%	1%	10	808	757	787
1	दक्षिणी क्षेत्र SR	कन्नूल KURNOOL	0%	100%	0%	0%	3	804	748	781
2		नेल्लूर पूलिंग NELLORE PS	0%	100%	0%	0%	0	800	753	777
3		रायचूर RAICHUR	0%	100%	0%	0%	1	802	752	784
4		निज़ामाबाद NIZAMABAD	0%	88%	12%	12%	90	811	749	791
5		श्रीकाकुलम SRIKAKULAM	0%	86%	14%	14%	101	812	752	792
6	तिरुवलम THIRUVALEM	0%	89%	11%	11%	83	813	753	787	
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	411	401	407
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	1	425	391	409
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	1	425	391	408
4		बोंगाईगाव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	390	404
5		बोंगाईगाव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	2	421	396	409
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	411	401	407
7		पालाताना PALATANA (400 kV)	0%	100%	0%	0%	0	417	405	412
8		रंगानदी RANGANADI (400 kV)	0%	100%	0%	0%	0	410	404	408
9		मिसा MISA (400 kV)	0%	95%	5%	5%	37	427	398	413
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	417	393	406

All listed stations are 765 kV stations unless otherwise mentioned

*Percentage is calculated w.r.t. Time of one month.

FREQUENCY DEVIATION INDEX FOR DECEMBER 2018

Date of reporting:

04-Jan-19

Date	Percentage of time frequency is			Freq Deviation Index* (FDI)	No. of hours frequency is outside 49.9-50.05 Hz	Average Frequency (Hz)
	<49.9 Hz	49.9 - 50.05 Hz	>50.05 Hz			
01-Dec-18	8.75	82.66	8.59	17.34	4:09	49.98
02-Dec-18	3.13	78.98	17.89	21.02	5:02	50.00
03-Dec-18	12.92	76.66	10.43	23.34	5:36	49.98
04-Dec-18	13.99	80.39	5.62	19.61	4:42	49.97
05-Dec-18	19.09	75.53	5.38	24.47	5:52	49.95
06-Dec-18	21.57	71.77	6.66	28.23	6:46	49.95
07-Dec-18	11.02	80.95	8.03	19.05	4:34	49.98
08-Dec-18	11.03	79.26	9.71	20.74	4:58	49.98
09-Dec-18	11.10	80.73	8.17	19.27	4:37	49.97
10-Dec-18	23.37	72.96	3.67	27.04	6:29	49.95
11-Dec-18	16.68	76.01	7.31	23.99	5:45	49.96
12-Dec-18	20.64	71.16	8.21	28.84	6:55	49.96
13-Dec-18	7.74	86.22	6.04	13.78	3:18	49.97
14-Dec-18	9.34	79.16	11.50	20.84	5:00	49.98
15-Dec-18	12.22	77.33	10.45	22.67	5:26	49.98
16-Dec-18	8.96	74.83	16.22	25.17	6:02	49.99
17-Dec-18	12.89	77.99	9.12	22.01	5:17	49.97
18-Dec-18	8.00	81.91	10.09	18.09	4:20	49.98
19-Dec-18	20.49	71.75	7.77	28.25	6:46	49.95
20-Dec-18	19.36	72.72	7.92	27.28	6:32	49.96
21-Dec-18	25.35	67.64	7.01	32.36	7:46	49.95
22-Dec-18	9.93	80.45	9.62	19.55	4:41	49.98
23-Dec-18	6.93	75.98	17.08	24.02	5:45	50.00
24-Dec-18	11.50	74.92	13.58	25.08	6:01	49.98
25-Dec-18	19.40	71.97	8.63	28.03	6:43	49.96
26-Dec-18	2.72	78.32	18.96	21.68	5:12	50.01
27-Dec-18	5.03	80.36	14.61	19.64	4:42	49.99
28-Dec-18	13.09	76.52	10.39	23.48	5:38	49.98
29-Dec-18	11.00	77.86	11.15	22.14	5:18	49.98
30-Dec-18	6.30	79.52	14.18	20.48	4:54	49.99
31-Dec-18	8.68	76.26	15.06	23.74	5:41	49.99
December 2018	12.65	77.06	10.29	22.94	0.23	49.97

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

