

POWER SYSTEM OPERATION CORPORATION LIMITED
NATIONAL LOAD DESPATCH CENTRE
NEW DELHI
System Reliability Indices Report for the month of January 2019

Date: 5-Feb-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	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	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.

Voltage Profile

विद्युत विभव रूपरेखा माह - जनवरी 2019

VOLTAGE PROFILE - January 2019

Date of reporting: 05-Feb-19

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%	1	803	768	784
2		गया GAYA	0%	100%	0%	0%	0	789	752	771
3		झारसगुड़ा JHARSUGUDA	0%	90%	10%	10%	73	812	778	794
4		रांची RANCHI	0%	100%	0%	0%	0	795	764	780
5		सासाराम SASARAM	0%	100%	0%	0%	0	784	728	759
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	803	756	785
2		आगरा (फतेहाबाद) AGRA (FATEHABAD)	0%	95%	5%	5%	38	809	737	780
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	789	750	769
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	788	745	768
5		अंता ANTA	0%	100%	0%	0%	0	797	733	781
6		बलिया BALLIA	0%	100%	0%	0%	0	794	752	773
7		भिवानी BHIWANI	0%	93%	7%	7%	50	809	762	790
8		बरौली BAREILLY	0%	100%	0%	0%	0	760	740	759
9		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	791	737	768
10		ग्रेटर नोएडा GREATER NOIDA	0%	82%	18%	18%	135	808	766	792
11		झाटिकरा JHATIKARA	0%	96%	4%	4%	33	809	759	789
12		कानपुर जीआइएस KANPUR GIS	3%	97%	0%	3%	20	760	697	758
13		लखनऊ LUCKNOW	0%	98%	2%	2%	14	805	755	781
14		लालितपुर LALITPUR	1%	98%	1%	2%	15	811	719	765
15		मेरठ MEERUT	0%	95%	5%	5%	36	808	760	789
16		मोगा MOGA	0%	100%	0%	0%	0	799	740	777
17		फागी PHAGI	0%	99%	1%	1%	6	802	723	785
18		वाराणसी VARANASI	0%	100%	0%	0%	0	795	754	778
19		उन्नाव UNNAO	0%	100%	0%	0%	0	787	731	762
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	753	777
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	2	804	756	786
3		भोपाल (बोर्डिंगसेल) BHOPAL (BDTCL)	0%	100%	0%	0%	0	797	748	777
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	785	760	775
5		बीना BINA	0%	100%	0%	0%	0	801	758	785
6		चापा CHAMPA	0%	89%	11%	11%	82	807	779	795
7		धर्मजयगढ़ DHARAMJAIGARH	0%	100%	0%	0%	0	795	766	781
8		धुल (बोर्डिंगसेल) DHULE (BDTCL)	0%	100%	0%	0%	0	802	743	779
9		एकतुनी EKTUNI	0%	100%	0%	0%	0	791	753	778
10		ग्वालियर GWALIOR	0%	100%	0%	0%	3	802	747	786
11		इंदौर INDORE	0%	100%	0%	0%	0	793	748	776
12		जबलपुर JABALPUR	0%	100%	0%	0%	2	802	762	787
13		कोरडी KORADI	0%	100%	0%	0%	0	778	749	767
14		पुणे PUNE	0%	100%	0%	0%	0	800	732	770
15		रायगढ़ पूलिंग RAIGARH POOLING	0%	94%	6%	6%	47	805	778	793
16		रायपुर पूलिंग RAIPUR POOLING	0%	100%	0%	0%	0	800	766	784
17		सासन SASAN	0%	100%	0%	0%	0	787	759	774
18		सतना SATNA	0%	100%	0%	0%	0	795	759	779
19		सिवनी SEONI	0%	100%	0%	0%	0	798	758	785
20		सोपत SIPAT	0%	100%	0%	0%	0	784	760	774
21		सोलापुर SOLAPUR	0%	92%	8%	8%	59	808	714	791
22		तामनार TAMNAR	0%	97%	3%	3%	24	803	778	792
23		तिरुंगा TIRORA	0%	100%	0%	0%	0	772	750	762
24		वडोदरा VADODARA	0%	100%	0%	0%	2	805	765	787
25		विन्ध्याचल पूलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	788	760	776
26		वर्धा WARDHA	0%	100%	0%	0%	2	802	762	788
1	दक्षिणी क्षेत्र SR	कन्नूल KURNOOL	0%	99%	1%	1%	8	806	747	782
2		नेल्लूर पूलिंग NELLORE PS	0%	98%	2%	2%	17	804	747	776
3		रायचूर RAICHUR	0%	100%	0%	0%	1	803	750	783
4		निज़ामाबाद NIZAMABAD	0%	87%	13%	13%	97	812	756	792
5		श्रीकाकुलम SRIKAKULAM	0%	85%	15%	15%	110	811	757	793
6		तिरुवलम THIRUVALEM	0%	81%	19%	19%	139	818	752	789
1	पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	413	400	407
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	1	422	392	408
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	423	390	407
4		बोंगाईगांव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	415	392	405
5		बोंगाईगांव टीपीएस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	420	397	410
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	413	400	407
7		पालाटाना PALATANA (400 kV)	0%	100%	0%	0%	0	417	402	412
8		रंगानदी RANGANADI (400 kV)	0%	98%	2%	2%	16	481	400	406
9		मोसा MISA (400 kV)	0%	93%	7%	7%	52	425	396	413
10		सिलचर SILCHAR (400 kV)	0%	100%	0%	0%	0	417	389	405

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

FREQUENCY DEVIATION INDEX FOR JANUARY 2019

Date of reporting:

05-Feb-19

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-Jan-19	9.98	71.71	18.31	28.29	6:47	49.99
02-Jan-19	15.83	78.46	5.71	21.54	5:10	49.96
03-Jan-19	22.37	62.30	15.32	37.70	9:02	49.96
04-Jan-19	22.23	65.72	12.05	34.28	8:13	49.96
05-Jan-19	7.05	68.45	24.50	31.55	7:34	50.00
06-Jan-19	4.42	67.42	28.16	32.58	7:49	50.02
07-Jan-19	7.31	71.25	21.44	28.75	6:54	50.00
08-Jan-19	6.50	74.31	19.19	25.69	6:10	50.00
09-Jan-19	11.83	75.79	12.38	24.21	5:48	49.98
10-Jan-19	12.27	77.73	10.00	22.27	5:20	49.97
11-Jan-19	20.87	69.80	9.33	30.20	7:14	49.97
12-Jan-19	17.72	66.84	15.44	33.16	7:57	49.98
13-Jan-19	5.59	69.63	24.78	30.37	7:17	50.01
14-Jan-19	4.43	66.44	29.13	33.56	8:03	50.01
15-Jan-19	6.32	67.04	26.64	32.96	7:54	50.01
16-Jan-19	8.80	66.22	24.99	33.78	8:06	50.00
17-Jan-19	8.47	74.16	17.37	25.84	6:12	50.00
18-Jan-19	20.36	72.25	7.40	27.75	6:39	49.96
19-Jan-19	8.09	75.79	16.12	24.21	5:48	49.99
20-Jan-19	2.86	72.01	25.13	27.99	6:43	50.01
21-Jan-19	10.64	67.27	22.09	32.73	7:51	50.00
22-Jan-19	11.89	64.61	23.51	35.39	8:29	50.00
23-Jan-19	9.35	71.64	19.00	28.36	6:48	49.99
24-Jan-19	8.73	72.05	19.22	27.95	6:42	49.99
25-Jan-19	11.39	74.10	14.51	25.90	6:13	49.98
26-Jan-19	6.70	64.26	29.04	35.74	8:34	50.01
27-Jan-19	11.41	58.50	30.09	41.50	9:57	50.00
28-Jan-19	13.34	67.62	19.04	32.38	7:46	49.99
29-Jan-19	13.83	72.45	13.72	27.55	6:36	49.98
30-Jan-19	6.88	77.67	15.45	22.33	5:21	49.99
31-Jan-19	3.83	74.42	21.75	25.58	6:08	50.01
January 2019	10.69	70.25	19.06	29.75	0.30	49.99

*FDI is defined as percentage of time for which frequency is outside IEGC band (49.95-50.05 Hz)

