

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

Date: 05-Feb-2020

System Reliability Indices Report for the month of January 2020

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	9	2.25	0.30
3	Import of NR	0	0.00	0.00
4	NEW-SR	90	22.50	3.02
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	1	0.25	0.03
3	Import of NR	0	0.00	0.00
4	NEW-SR	11	2.75	0.37
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 JANUARY 2020

Date of reporting:

05-Feb-20

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-20	6.35	68.11	25.53	31.89	7:39	50.01
02-Jan-20	11.04	67.70	21.26	32.30	7:45	49.99
03-Jan-20	10.31	74.20	15.49	25.80	6:11	49.99
04-Jan-20	7.18	78.41	14.41	21.59	5:10	49.99
05-Jan-20	5.81	78.95	15.24	21.05	5:03	49.99
06-Jan-20	13.81	72.88	13.31	27.12	6:30	49.98
07-Jan-20	10.67	76.68	12.65	23.32	5:35	49.98
08-Jan-20	6.52	75.56	17.93	24.44	5:52	50.00
09-Jan-20	2.60	74.18	23.22	25.82	6:11	50.01
10-Jan-20	4.98	73.52	21.50	26.48	6:21	50.01
11-Jan-20	5.19	70.21	24.61	29.79	7:09	50.01
12-Jan-20	5.06	79.24	15.71	20.76	4:59	50.00
13-Jan-20	5.81	75.21	18.98	24.79	5:57	50.00
14-Jan-20	6.48	77.19	16.33	22.81	5:28	50.00
15-Jan-20	2.04	76.16	21.81	23.84	5:43	50.02
16-Jan-20	8.36	72.06	19.58	27.94	6:42	50.00
17-Jan-20	10.31	76.48	13.21	23.52	5:38	49.98
18-Jan-20	2.67	77.86	19.47	22.14	5:18	50.01
19-Jan-20	4.22	74.44	21.33	25.56	6:08	50.01
20-Jan-20	6.24	75.53	18.23	24.47	5:52	50.00
21-Jan-20	4.10	69.86	26.04	30.14	7:14	50.01
22-Jan-20	0.32	69.09	30.59	30.91	7:25	50.02
23-Jan-20	6.00	72.51	21.49	27.49	6:35	50.00
24-Jan-20	7.50	79.50	13.00	20.50	4:55	49.99
25-Jan-20	9.99	76.46	13.55	23.54	5:39	49.99
26-Jan-20	6.30	75.82	17.88	24.18	5:48	50.00
27-Jan-20	7.64	73.50	18.87	26.50	6:21	50.00
28-Jan-20	7.77	76.68	15.56	23.32	5:35	49.99
29-Jan-20	5.32	77.09	17.58	22.91	5:29	50.00
30-Jan-20	5.57	81.79	12.64	18.21	4:22	49.99
31-Jan-20	4.41	79.43	16.16	20.57	4:56	50.00
January 2020	6.47	75.04	18.49	24.96	0.25	50.00

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

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)	Number of hours voltage was outside IEGC band during month	उच्चतम (कि.वी.) Maximum(kV)	निम्नतम(कि.वी.) Minimum(kV)	औसत (कि.वी.) Average(kV)
1	पूर्वी क्षेत्र ER	अंगुल ANGUL	0%	100%	0%	0%	0	797	763	783
2		गया GAYA	0%	100%	0%	0%	0	792	754	776
3		झारसुगुडा JHARSUGUDA	0%	87%	13%	13%	99	808	774	794
4		रांची RAUCHI	0%	100%	0%	0%	0	794	763	782
5		सासाराम SASARAM	0%	100%	0%	0%	0	797	742	765
6		दार्जिलिगंजी DARLIPALI	0%	100%	0%	0%	0	799	769	785
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	1	806	750	782
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	87%	13%	13%	94	810	734	787
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	781	758	769
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	782	757	769
5		अंता ANTA	0%	100%	0%	0%	0	799	757	782
6		बलिया BALLIA	0%	100%	0%	0%	0	795	752	777
7		बारा BARA	0%	100%	0%	0%	0	795	759	779
8		भिवानी BHIWANI	0%	98%	2%	2%	11	810	750	785
9		बरेली BAREILLY	0%	81%	19%	19%	139	809	759	791
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	796	734	768
11		ग्रेटर नोएडा GREATER NOIDA	0%	86%	14%	14%	106	813	756	791
12		झाटिकर JHATIKARA	0%	99%	1%	1%	5	806	744	784
13		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	799	756	781
14		लखनऊ LUCKNOW	0%	95%	5%	5%	34	804	761	787
15		ललितपुर LALITPUR	0%	99%	0%	1%	5	815	720	773
16		मेरठ MERUT	0%	98%	2%	2%	17	812	741	784
17		मोहा MOGA	0%	100%	0%	0%	0	804	742	775
18		फागी PHAGI	0%	100%	0%	0%	0	805	751	783
19		वाराणसी VARANASI	0%	100%	0%	0%	0	798	759	782
20		उन्नाव UNNAO	0%	100%	0%	0%	0	789	746	770
21		चित्तौड़गढ़ CHITTOORGARH	0%	99%	1%	1%	7	803	747	783
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	1	801	747	782
23		अजमेर AJMER	0%	100%	0%	0%	3	803	743	778
24		हापड़ HAPUR	0%	97%	3%	3%	26	805	754	787
25		मैनपुरी MAINPURI	0%	75%	25%	25%	189	812	762	793
26		उरई ORAI	0%	98%	2%	2%	18	804	757	788
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	792	750	773
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	801	748	780
3		भोपाळ (बीडीटीसी) BHOPAL (BDTCL)	0%	100%	0%	0%	0	791	750	774
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	790	759	776
5		बीना BINA	0%	100%	0%	0%	0	793	756	782
6		चम्पा CHAMPA	0%	98%	2%	2%	12	801	769	787
7		धर्मपुर धारम जागर DHARAM JAIGARH	0%	100%	0%	0%	0	793	751	773
8		धुल (बीडीटीसी) DHULE (BDTCL)	0%	100%	0%	0%	0	797	740	774
9		एकतुली EKTUNI	0%	100%	0%	0%	0	794	747	774
10		ग्वालियर GWALIOR	0%	100%	0%	0%	1	806	753	784
11		इंदौर INDORE	0%	100%	0%	0%	0	795	747	771
12		जबलपुर JABALPUR	0%	100%	0%	0%	0	800	759	785
13		कोरडी KORADI	0%	100%	0%	0%	0	779	746	765
14		पुणे PUNE	0%	100%	0%	0%	0	800	751	782
15		रायगड पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	800	769	786
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	795	759	780
17		सासन SASAN	0%	100%	0%	0%	0	786	759	772
18		सतना SATNA	0%	100%	0%	0%	0	793	755	777
19		सिलोनी SEONI	0%	100%	0%	0%	0	800	754	782
20		सिपाट SIPAT	0%	100%	0%	0%	0	788	760	776
21		सोलापुर SOLAPUR	0%	98%	2%	2%	17	805	750	786
22		तामनार TAMNAR	0%	100%	0%	0%	0	798	771	786
23		तिरुछा TIROHA	0%	100%	0%	0%	0	770	748	761
24		वडोदरा VADODARA	0%	100%	0%	0%	0	798	760	782
25		विंध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	786	761	774
26		वर्धा WARDHA	0%	100%	0%	0%	1	804	749	782
27		भुज BHUJ	0%	100%	0%	0%	0	793	748	772
28		बनसकांठ BANASKANTHA	0%	100%	0%	0%	0	798	755	780
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	798	764	785
30		पडरुधे PADGHE	0%	96%	4%	4%	31	805	762	785
31		परली PARLI	0%	100%	0%	0%	3	803	762	785
32		राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	3	801	765	787
33		वरुणा WARORA	0%	99%	1%	1%	4	803	761	782
1	दक्षिणी क्षेत्र SR	कुर्नूल KURNOOL	0%	100%	0%	0%	0	797	733	775
2		नेल्लोर पुलिंग NELLORE PS	0%	100%	0%	0%	0	794	746	772
3		रायचूर RAICHUR	0%	100%	0%	0%	0	797	742	778
4		निजामाबाद NIZAMABAD	0%	95%	5%	5%	34	813	746	784
5		श्रीकाकुलम SRIKAKULAM	0%	94%	6%	6%	43	813	748	785
6		तिरुवल्लम THIRUVALEM	0%	99%	1%	1%	4	802	734	777
7		कुड्डापु कुड्डापु CUDDAPAH	0%	94%	6%	6%	48	811	746	786
8		महेश्वरम MAHESWARAM	0%	100%	0%	0%	0	804	732	776
9		वेमगिरी VEMAGIRI	0%	85%	15%	15%	113	815	743	782
1	पूर्वोत्तर क्षेत्र NER	अजारा AZARA (400 kV)	0%	100%	0%	0%	0	414	405	410
2		बालिपारा BALIPARA (400 kV)	0%	100%	0%	0%	1	421	396	410
3		बिस्वनाथ चरिआलि BISWANATH CHARIALI (400 kV)	0%	100%	0%	0%	0	421	395	408
4		बोंगागाँव BONGAIGAON (400 kV)	0%	100%	0%	0%	0	416	374	409
5		बोंगागाँव टीपोरस BONGAIGAON TPS (400 kV)	0%	100%	0%	0%	0	418	400	411
6		बर्निहाट BYRNIHAT (400 kV)	0%	100%	0%	0%	0	414	405	410
7		पालाताना PALATANA (400 kV)	0%	99%	2%	2%	12	421	406	415
8		रानगाँव RANGANADI (400 kV)	0%	84%	8%	8%	266	431	386	417
9		मिसा MISA (400 kV)	0%	100%	0%	0%	2	422	398	411
10		सिलचर SILCHAR (400 kV)	0%	98%	2%	2%	15	421	398	411
11		इम्फाल IMPHAL (400 kV)	0%	90%	10%	10%	74	424	397	411
12		कामेंग KAMENG (400 kV)	0%	100%	0%	0%	0	423	394	408

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

