

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

Date: 05-Mar-2020

**System Reliability Indices Report for the month of February 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	0	0.00	0.00
3	Import of NR	0	0.00	0.00
4	NEW-SR	9	2.25	0.32
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.

## FREQUENCY DEVIATION INDEX FOR FEBRUARY 2020

Date of reporting:

05-Mar-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-Feb-20	3.41	75.29	21.30	24.71	5:55	50.01
02-Feb-20	5.07	69.40	25.53	30.60	7:20	50.01
03-Feb-20	17.26	72.71	10.03	27.29	6:33	49.97
04-Feb-20	15.80	73.40	10.80	26.60	6:23	49.97
05-Feb-20	6.12	74.46	19.42	25.54	6:07	50.00
06-Feb-20	6.52	75.76	17.72	24.24	5:49	50.00
07-Feb-20	7.03	72.92	20.06	27.08	6:30	50.00
08-Feb-20	7.44	72.69	19.87	27.31	6:33	50.00
09-Feb-20	4.57	71.03	24.40	28.97	6:57	50.01
10-Feb-20	2.65	67.74	29.61	32.26	7:44	50.02
11-Feb-20	6.41	70.56	23.03	29.44	7:04	50.01
12-Feb-20	7.38	74.34	18.28	25.66	6:09	50.00
13-Feb-20	10.58	76.00	13.43	24.00	5:45	49.98
14-Feb-20	7.16	75.87	16.97	24.13	5:47	50.00
15-Feb-20	6.38	76.40	17.22	23.60	5:39	50.00
16-Feb-20	3.22	75.08	21.70	24.92	5:58	50.01
17-Feb-20	3.82	77.73	18.45	22.27	5:20	50.01
18-Feb-20	8.60	78.31	13.09	21.69	5:12	49.99
19-Feb-20	6.08	73.74	20.19	26.26	6:18	50.00
20-Feb-20	6.28	69.13	24.58	30.87	7:24	50.01
21-Feb-20	7.42	76.23	16.35	23.77	5:42	49.99
22-Feb-20	7.13	71.72	21.15	28.28	6:47	50.00
23-Feb-20	5.16	74.98	19.86	25.02	6:00	50.00
24-Feb-20	9.83	73.96	16.22	26.04	6:15	49.99
25-Feb-20	10.02	72.75	17.22	27.25	6:32	49.99
26-Feb-20	7.81	71.35	20.83	28.65	6:52	50.00
27-Feb-20	4.51	77.33	18.16	22.67	5:26	50.00
28-Feb-20	5.38	76.83	17.79	23.17	5:33	50.00
29-Feb-20	5.74	76.81	17.45	23.19	5:34	50.00
<b>February 2020</b>	<b>7.06</b>	<b>73.95</b>	<b>18.99</b>	<b>26.05</b>	<b>0.26</b>	<b>50.00</b>

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

विद्युत विभव रूपरेखा माह - फरवरी 2020

VOLTAGE PROFILE - February 2020

Date of reporting: 05-Mar-20

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	अंगल ANGUL	0%	100%	0%	0%	0	803	748	780
2		मया GAYA	0%	100%	0%	0%	0	793	755	777
3		झारसुगुडा JHARSUGUDA	0%	92%	8%	8%	58	808	772	792
4		रांची RAUCHI	0%	100%	0%	0%	0	785	765	782
5		सासाराम SASARAM	0%	100%	0%	0%	0	779	740	761
6		दार्जिलिङ DARBILPALI	0%	100%	0%	0%	0	800	766	786
1	उत्तरी क्षेत्र NR	आगरा AGRA	0%	100%	0%	0%	0	802	747	781
2		आगरा (फतेहबाद) AGRA (FATEHABAD)	0%	88%	12%	12%	81	811	729	788
3		अनपरा सी ANPARA-C	0%	100%	0%	0%	0	785	758	772
4		अनपरा डी ANPARA-D	0%	100%	0%	0%	0	784	760	773
5		अंता ANTA	0%	100%	0%	0%	0	800	756	781
6		बलिया BALLIA	0%	100%	0%	0%	0	797	755	777
7		बारा BARA	0%	100%	0%	0%	0	794	755	781
8		भिवानी BHIWANI	0%	99%	1%	1%	8	802	750	783
9		बरेली BAREILLY	0%	89%	11%	11%	78	810	760	789
10		फतेहपुर FATEHPUR	0%	100%	0%	0%	0	794	740	768
11		ग्रेटर नोएडा GREATER NOIDA	0%	92%	8%	8%	53	807	756	789
12		झाटिका JHATIKARA	0%	100%	0%	0%	3	805	749	779
13		कानपुर जीआइएस KANPUR GIS	0%	100%	0%	0%	0	798	756	781
14		लखनऊ LUCKNOW	0%	96%	4%	4%	29	805	763	787
15		ललितपुर LALITPUR	1%	99%	0%	1%	6	802	717	774
16		मेरठ MERUT	0%	98%	1%	1%	5	805	746	783
17		मोहा MOGA	0%	100%	0%	0%	0	804	739	773
18		फागी PHAGI	0%	100%	0%	0%	0	801	746	782
19		वाराणसी VARANASI	0%	100%	0%	0%	1	802	761	783
20		उन्नाव UNNAO	0%	100%	0%	0%	0	790	746	771
21		चित्तौड़गढ़ CHITTOORGARH	0%	100%	0%	0%	2	802	750	784
22		अलीगढ़ ALIGARH	0%	100%	0%	0%	0	799	749	781
23		अजमेर AJMER	0%	100%	0%	0%	2	804	739	778
24		हापड़ HAPUR	0%	99%	1%	1%	7	802	748	784
25		मैनपुरी MAINPURI	0%	83%	17%	17%	119	814	763	792
26		उरई ORAI	0%	100%	0%	0%	0	800	756	785
1	पश्चिमी क्षेत्र WR	अकोला AKOLA	0%	100%	0%	0%	0	796	751	772
2		औरंगाबाद AURANGABAD	0%	100%	0%	0%	0	803	750	777
3		भोपाल (बीडीटीएस) BHOPAL (BDTCL)	0%	100%	0%	0%	0	795	746	772
4		बिलासपुर BILASPUR	0%	100%	0%	0%	0	784	760	774
5		बीना BINA	0%	100%	0%	0%	0	797	753	780
6		चम्पा CHAMPA	0%	100%	0%	0%	0	800	770	787
7		धर्मपुर धरम जागर DHARAM JAIGARH	0%	100%	0%	0%	0	791	746	776
8		धुले (बीडीटीएस) DHULE (BDTCL)	0%	100%	0%	0%	0	800	747	772
9		एकतुली EKTUNI	0%	100%	0%	0%	0	794	746	770
10		ग्वालियर GWALIOR	0%	100%	0%	0%	0	801	748	782
11		इंदौर INDORE	0%	100%	0%	0%	0	796	749	770
12		जबलपुर JABALPUR	0%	100%	0%	0%	0	800	759	783
13		कोरडी KORADI	0%	100%	0%	0%	0	780	750	766
14		पुणे PUNE	0%	100%	0%	0%	0	800	749	783
15		रायगड पुलिंग RAIGARH POOLING	0%	100%	0%	0%	0	797	769	785
16		रायपुर पुलिंग RAIPUR POOLING	0%	100%	0%	0%	0	797	765	780
17		सासन SASAN	0%	100%	0%	0%	0	779	756	770
18		सतना SATNA	0%	100%	0%	0%	0	788	749	775
19		सिलोनी SEONI	0%	100%	0%	0%	0	797	760	780
20		सिपाट SIPAT	0%	100%	0%	0%	0	783	760	773
21		सोलापुर SOLAPUR	1%	99%	1%	1%	4	809	756	782
22		तामनार TAMNAR	0%	100%	0%	0%	0	796	771	785
23		तिरुछा TIROHA	0%	100%	0%	0%	0	773	750	762
24		वडोदरा VADODARA	0%	100%	0%	0%	0	798	764	780
25		विध्याचल पुलिंग VINDHYACHAL PS	0%	100%	0%	0%	0	781	756	772
26		वर्धा WARDHA	0%	100%	0%	0%	1	806	756	781
27		भुज BHUJ	0%	100%	0%	0%	0	798	746	770
28		बनसकांठा BANASKANTHA	0%	100%	0%	0%	1	803	750	778
29		गदरवाड़ा GADARWARA	0%	100%	0%	0%	0	796	765	783
30		पडरुधे PADGHE	0%	97%	3%	3%	24	804	756	784
31		परली PARLI	0%	100%	0%	0%	1	801	763	782
32		राजनन्दगांव RAJNANDGAON	0%	100%	0%	0%	0	800	771	787
33		वाराणसी WARDORA	0%	100%	0%	0%	0	795	764	781
34	कुर्नूल KURNOOL	0%	100%	0%	0%	0	798	744	777	
2	दक्षिणी क्षेत्र SR	नेल्लोर पुलिंग NELLORE PS	0%	100%	0%	0%	0	798	751	779
3		रायचूर RAICHUR	0%	100%	0%	0%	0	797	750	778
4		निजामाबाद NIZAMABAD	0%	93%	7%	7%	47	823	743	784
5		श्रीकाकुलम SRIKAKULAM	8%	92%	8%	8%	55	823	743	785
6		तिरुवल्लम THIRUVALEM	0%	100%	0%	0%	0	801	740	776
7		कुड्डापहा CUDDAPAH	0%	92%	8%	8%	59	811	752	787
8		महेश्वरम MAHESWARAM	0%	99%	1%	1%	9	823	738	777
9		वेमगिरी VEMAGIRI	0%	95%	5%	5%	37	812	753	783
1		पूर्वोत्तर क्षेत्र NER	अज़ारा AZARA (400 kV)	0%	100%	0%	0%	0	415	403
2	बालिपारा BALIPARA (400 kV)		0%	100%	0%	0%	1	424	390	407
3	बिस्वनाथ चरियालि BISWANATH CHARIALI (400 kV)		0%	100%	0%	0%	0	423	387	406
4	बोंगागाँव BONGAIGAON (400 kV)		0%	100%	0%	0%	0	417	397	408
5	बोंगागाँव टीपोरस BONGAIGAON TPS (400 kV)		0%	100%	0%	0%	1	420	398	410
6	बर्निहाट BYRNIHAT (400 kV)		0%	100%	0%	0%	0	415	403	409
7	पालाताना PALATANA (400 kV)		4%	96%	4%	4%	29	424	384	414
8	रांगानादी RANGANADI (400 kV)		0%	83%	17%	17%	119	432	395	414
9	मिशा MISA (400 kV)		0%	98%	2%	2%	11	425	393	409
10	सिलचर SILCHAR (400 kV)		3%	92%	5%	8%	56	425	350	407
11	इम्फाल IMPHAL (400 kV)		0%	87%	13%	13%	90	425	386	410
12	कामेंग KAMENG (400 kV)		0%	100%	0%	0%	0	426	387	407

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

Angular Difference for the month of February-20

